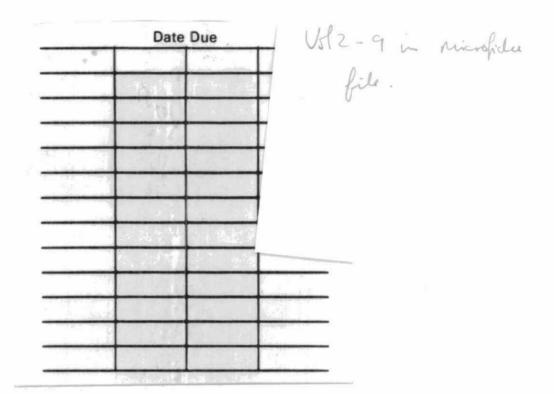


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# AIR QUALITY 1984 MONITORING REPORT ONTARIO 1981

VOL. 1

Summary of Data

ARB-136-83-AQM



Ministry of the Environment

Hon. Andrew S. Brandt Minister

Gérard J. M. Raymond Deputy Minister

## Introduction:

This report, Volume 1, contains a summary of 1981 air quality data obtained by continuous monitoring instruments for gases and hi-volume samplers for particulate matter operated by the Ministry of the Environment at 216 locations across Ontario including a 19 site network run as part of the Nanticoke Environmental Monitoring Program (NEMP) survey in the countries of Norfolk and Haldimand on the north shore of Lake Erie.

Summaries of the hourly averaged data for sulphur dioxide, soiling index, carbon monoxide, methane, hydrocarbons (total and reactive), ozone, total reduced sulphur, nitrogen dioxide, nitric oxide and nitrogen oxides as well as the daily measured data for total suspended particulate matter, lead, iron, copper, cadmium, chromium, zinc, manganese, nickel, vanadium, sulphate and nitrate obtained at these monitoring locations are available on microfiche. Requests for these data should be sent to Air Quality Unit, Air Quality and Meteorology Section, Air Resources Branch, Ontario Ministry of the Environment, 880 Bay Street, Toronto, Ontario, M5S 1Z8.

Volume 2 of the 1981 Air Quality Monitoring Report contains seasonal summaries for the above pollutants and is also available on microfiche.

# Sampling Stations:

Table 1 lists the stations in the Ontario monitoring network with continuous hourly sampling instruments. The first seven columns give the region in which the monitor is located, the station identification number and name, its bearing on the Universal Transverse Mercator (UTM) grid projection, the elevation of the station above mean sea level, and the height of the air intake above ground. The remaining seven columns indicate which pollutants, total reduced sulphur (TRS), sulphur dioxide (SO<sub>2</sub>), soiling index, 1-hour or 2-hour sampling rate, (COH), ozone (O<sub>3</sub>), carbon monoxide (CO), hydrocarbons (HC), either methane, reactive (non-methane) or total, and nitrogen oxides (NO<sub>x</sub>), including nitric oxide and nitrogen dioxide, are being monitored at that station.

The general locations of the continuous monitors across Ontario are shown in Figure 1 as well as the number of sites in each region and city. The Central Region has the most monitoring sites: 28. The locations of continuously monitoring stations for Metropolitan Toronto, Hamilton, the Sudbury area, and Windsor are shown in Figures 2, 3, 4 and 5 respectively.

Table 2 lists the stations in the Ontario monitoring network for suspended particulate matter using the hivolume sampling method. The first eight columns give the region in which the monitor is located, the station number and name, the survey type, the UTM grid coordinates, the station elevation and air intake height. Except for survey type, these columns are the same as those in Table 1. The survey type consists of a letter indicating the survey purpose, either oriented towards a specific source (S) or for general ambient air quality (A), (N) indicates the site was nonconforming to the Canadian Federal-Provincial criteria for monitor siting to such a degree that resulting data may not be strictly comparable with other monitoring results, and the numeral indicates sampling frequency daily (1), once every three days (3), or once every six days (6). The remaining four columns indicate those analyses performed on the exposed filter that are herein reported: total suspended particulate matter (TSP), lead by X-ray fluorescence technique (Pb(XRF)), one or more of the metals, lead, iron, zinc, copper, cadmium, chromium vanadium, nickel, and manganese, by atomic absorption (AA)

or induced coupled plasma (ICP) techniques, and sulphate and nitrate ( $SO_4$ -2/ $NO_3$ -).

The general locations as well as the number of hivolume monitors in each region and city are given in Figure 6. The greatest number of samplers is found in the Central Region (49), 26 of which are located in Metropolitan Toronto. The location of monitors in Metropolitan Toronto, Hamilton and Windsor are found in Figures 7, 8 and 9 respectively.

Data from the NEMP survey are provided by the NEMP project team of the Special Studies Unit of the Atmospheric Research and Special Programs Section of the Air Resources Branch who are responsible for the data acquisition and validation of data for this report.

# Criteria for Desirable Ambient Air Quality:

When pollutants are released into the ambient air, they may, at some concentration, have a significantly adverse effect on man, animals, vegetation or property. In order to determine at what concentration significant adverse effects occur, Ontario employs a permanent standards setting committee. The committee, comprised of experts in several fields, reviews the scientific literature and recommends concentrations and averaging times for the air quality criteria. The desirable ambient air quality criteria are set at the lowest concentration causing a known significantly adverse effect. These criteria, therefore, serve as a convenient yardstick by which the Province may estimate its success in achieving its goals for desirable ambient air quality through emission controls.

Table 3 outlines the criteria for desirable ambient air quality for those contaminants contained in this report. The criteria are given in units of parts per million by volume of air, parts per billion by volume of air, coefficient of haze (COH) per 1000 feet of air or micrograms per cubic metre of air for the sampling time appropriate for each criterion: 1 hour, 8 hours, 24 hours, or 1 year.

## 1981 Measurements:

Validation and processing of air quality data in Ontario is the responsibility of the Air Quality and Meteorology Section of the Air Resources Branch. The instrumentation, however, has been installed and maintained by the Technical Support Group in each of the six Regional Offices. Analysis of hi-volume filters is done by the Ministry's Laboratory Services and Applied Research Branch.

Continuous monitoring data are acquired in two ways. Data from stations in major population centres and those areas which have a publicized Air Pollution Index are telemetered in real-time to the central data-acquisition facility at the Air Resources Branch in Toronto where they are digitized, stored on magnetic tape, and then computer-processed into the Air Quality Information System (AQUIS). All other data are recorded locally on analogue charts which are later read and digitized by the Air Quality Unit, Air Quality and Meteorology Section, Air Resources Branch and then processed by computer and entered into the AQUIS files in the same way as the telemetered data.

Exposed filters from the hi-volume sampling network are collected by the Regions and are sent to the Laboratory Services and Applied Research Branch. There, the total suspended particulate concentration is

determined, and any analyses for the components of the particulate matter required are performed. Data are then stored in the Laboratory's Sample Information System (SIS) and, at intervals, abstracted from the SIS files to the AOUIS files.

In this Volume, the annual summaries of hourly readings and hi-volume results of each station and contaminant are reported. Each line gives the station number and location, the number of months or samples for which valid data were obtained, the percentile distribution, and, where appropriate, the number of times the air quality criteria were exceeded. For continuous monitoring results, the arithmetic mean, minimum and maximum 1-hour concentration, and maximum 24-hour concentration are also reported. (In the case of carbon monoxide, the maximum 8-hour concentration is reported instead of the 24-hour concentration.) For the hi-volume results, the arithmetic mean, geometric mean, and maximum 24-hour concentrations are reported. The reported percentiles (10, 30, 50, 70, 90, and 99) indicate the cumulative frequency distribution for that pollutant. That is, the concentration reported is that concentration which is not exceeded X% of the time. For example, if the 70 percentile for SO2 is .010 ppm, this means that, at that site, the concentration of SO2 did not exceed .010 ppm on 70% of the hours reported.

Only those stations which report valid readings on 6570 hours for all continuous 1-hour monitoring, 3285 hours for continuous 2-hour monitoring and 40 samples for hivolume monitoring during 1981 are considered to have an adequate sample size from which to determine a representative annual mean. For those stations reporting fewer than the required number of samples, the reported arithmetic or geometric mean cannot be considered as representative for the comparison with the annual criterion for sulphur dioxide, soiling index, or total suspended particulate matter.

# **Analyses of Data:**

Sulphur Dioxide: (See Table 4)

When fuels containing sulphur are burned or ores containing sulphur are smelted, the sulphur joins with the oxygen in the air to form sulphur oxides. Sulphur dioxide (SO<sub>2</sub>) is the major sulphur oxide produced in these processes. It is a heavy, pungent, colourless gas which easily combines with water vapour to form sulphurous acid (H<sub>2</sub>SO<sub>3</sub>) or with oxygen to form sulphur trioxide (SO<sub>3</sub>). Both sulphurous acid and sulphur trioxide may further react to form sulphuric acid (H<sub>2</sub>SO<sub>4</sub>) – a major component of acid rain.

The gaseous sulphur oxides (SO<sub>2</sub> and SO<sub>3</sub>) have been associated with human respiratory illness, vegetation damage, and the weathering of materials. In the acid or acid salt form (sulphate or sulphite), the sulphur oxide can adversely affect respiratory health, vegetation, or materials, and cause reduction of visibility through the atmosphere. Sulphur oxides also are a major factor in increasing the acidity of precipitation.

Inventoried emissions of sulphur dioxide in 1981 were approximately 1.60 million tonnes, of which 0.97 million tonnes were emitted in the primary smelting of nickel, copper, and iron in the Sudbury and Wawa areas. Thermal generating stations are the largest sources of SO<sub>2</sub> in southern Ontario accounting for 0.42 million tonnes in 1981. The remaining 0.21 million tonnes are emitted by commercial and residential fuel users as well as refineries, coke ovens, and other industrial operations.

Of the 74 stations in the Ontario network, only two recorded a valid annual mean above the annual criterion of 0.02 ppm: Niagara Falls Rd./Ontario St., Thorold (0.040

ppm) and Holy Trinity Church, Norton/Portage, Chippawa (0.029 ppm). Both these stations are located near an industrial source of SO<sub>2</sub>.

Most of the stations which exceeded either the 1-hour or the 24-hour criterion on more than one occasion were located in the vicinity of major industrial sources of SO<sub>2</sub>. The station measuring the highest 24-hour average (0.39 ppm) was Niagara Fall Rd./Ontario St. in Thorold. The highest 1-hour average (1.45 ppm) was measured at Michipicoten Ave. in Mission.

Twenty-nine stations reported exceedences of the 1-hour criterion of 0.25 ppm. The most exceedences (253) occurred at Niagara Falls Rd./Ontario St., Thorold as did the most exceedences of the 24-hour criterion: 31. Ten stations exceeded the 24-hour criterion at least once.

#### Carbon Monoxide: (See Table 5)

Carbon monoxide (CO) is produced during the incomplete combustion of hydrocarbon fuels. In terms of total weight and concentration, it leads all other contaminants in city air. Mobile sources, mainly cars, trucks, and buses, are almost exclusively responsible, accounting for over 90% of all CO emissions. Pollutant control equipment on automobiles has been the main method used in reducing CO emissions in Ontario.

When CO is inhaled, it enters the bloodstream through the lungs and binds chemically to hemoglobin, the substance which transports oxygen to the cells of the body. Because CO is bound to the hemoglobin instead of oxygen, less oxygen is available for transport to the muscles and organs. With less oxygen available to the heart, there is a reduction in the amount of blood pumped through the body and therefore the amount of oxygen available to the body is further reduced. In a person with heart disease, the effects of excessive carbon monoxide can be hazardous. Those persons with respiratory disorders such as emphysema may also be severely affected.

The highest concentrations of carbon monoxide were measured at 381 Yonge St. in Toronto. This station, located close to a major traffic artery and within the urban street canyon, measured an annual average of 4.3 ppm, a maximum 8-hour average of 27 ppm and a 1-hour maximum of 47 ppm. The 8-hour criterion of 13 was exceeded 40 times at this station, and the 1-hour criterion of 30 ppb was exceeded 17 times. The 8-hour criterion was exceeded at 67 College St., 2nd Floor, Toronto once.

#### Hydrocarbons: (See Tables 6, 7 and 8)

Hydrocarbons are emitted naturally from trees and other vegetation and in the decay of animal and plant material. They are also emitted by motor vehicles, gasoline storage tanks, and many industrial sources such as the petroleum and chemical industries. The non-methane fraction of the total hydrocarbons is of special interest because it reacts with the nitrogen oxides in the atmosphere in the presence of sufficient sunlight to form ozone and other oxidant chemical species.

Three types of measurement of hydrocarbons are made in Ontario: methane, reactive (non-methane) hydrocarbons, and total hydrocarbons. The instrumentation used employs flame ionization detection techniques to determine the total hydrocarbon concentration in parts/million of carbon, as well as the methane concentration and the reactive (non-methane) hydrocarbon concentration.

No criterion have been set for desirable ambient concentrations of total hydrocarbons, reactive hydrocarbons or methane. The highest annual mean for total hydrocarbons was reported at King-Rectory in London and at Bronte Rd./Woburn Crescent in Oakville: 2.36 ppm.

The highest annual mean methane concentration (1.53 ppm) occurred at Nanticoke Rd./Walpole Conc. 5, Nanticoke as did the highest annual reactive hydrocarbon concentration (0.78 ppm).

No monitoring station measured all three types of hydrocarbons over a full year. Two short-term surveys in the Sarnia area measured all three over a period under 100 days.

#### Ozone: (See Table 9)

Ozone is a naturally occurring constituent of the upper atmosphere where it plays an important role in the maintenance of life on the ground by absorbing harmful ultraviolet radiation. In the lower atmosphere, ozone is detrimental to the health of man and plants and causes damage to some materials. Unlike most other pollutants, however, ozone is generally not directly emitted into the atmosphere by specific sources. Instead, it is the product of chemical reactions in the presence of adequate sunlight between reactive hydrocarbon compounds and nitrogen oxides.

Ozone is the main constituent of the Los Angeles-type smog which along with other photochemical oxidants and peroxyacyl nitrate (PAN) have been associated at high concentrations with adverse effects on human health. Ozone may irritate the lining of the nose and throat and hinder the functioning of the lungs. Many plants, especially some varieties of commercial crops such as white bean and tobacco, may be severely injured or killed by high concentration of ozone.

Since time is required for the photochemical reactions to produce ozone, the highest concentrations are often found some distance downwind from the source of the nitrogen oxides and reactive hydrocarbons. In addition, ozone is capable of travelling long distances through the atmosphere. Thus, ozone formed in the Mississippi or Ohio River Valleys in the United States may reach Ontario. This long-range transport of ozone has become a major area of concern in recent years.

Ozone transport and formation are both very dependent; upon large-scale weather conditions, therefore year-to-year average concentrations as well as the number of criterion exceedences may be quite variable. Ozone concentrations are also seasonally dependent with highest concentrations occurring during the late spring and summer. Therefore, annual mean concentrations are of lesser importance than the number of hours the 80 ppb criterion is exceeded. The only stations which did not exceed the 1-hour criterion in 1981 were located in Ottawa, Thunder Bay and Sudbury. Stations reporting more than 100 exceedences of the criterion were located at Long Point Provincial Park (159), Simcoe (138), Tiverton (113), Huron Park (110) and Windsor (106).

The maximum 1-hour concentration was measured at Centennial Park, Sarnia: 169 ppb. The maximum 24-hour O<sub>3</sub> average was measured at Simcoe: 86 ppb.

#### Total Reduced Sulphur: (See Table 10)

Much of the total reduced sulphur (TRS) measured in Ontario is in the form of hydrogen sulphide (H<sub>2</sub>S). In the vicinity of pulp and paper mills and refineries, however, significant concentrations of mercaptans and other reduced sulphurs may be present. Reduced sulphur compounds are also released from swamps, bogs, and marshes as the result of anaerobic decay processes.

The reduced sulphurs are objectionable because of their unpleasant odour at very low concentrations (often less than 30 ppb). Silver and copper tarnish and lead-based paints blacken in the presence of H<sub>2</sub>S.

Maximum concentrations of total sulphur for a 1-year average (12.2 ppb) and 1-hour average (435 ppb) were measured at Holy Trinity Church, Norton/Portage, Chippawa. The maximum 24-hour concentration occurred at Portage/Church St., Fort Frances (129 ppb). The majority of stations, most of which monitor near industry, reported maximum concentrations in excess of 60 ppb. No criteria have yet been set for TRS although a guideline of 27 ppb for a 1-hour average has been set for measurements made in the vicinity of Kraft paper mills. All such monitors exceeded the guideline.

# Oxides of Nitrogen:

Nitrogen Dioxide: (See Table 11)

Nitrogen dioxide (NO<sub>2</sub>) is one of a number of nitrogen oxide compounds which are formed both by man and nature. The main natural sources in the lower atmosphere are lightning and soil bacteria. Nitrogen and oxygen from the atmosphere are also combined during high temperature combustion such as occurs in automobile engines, power plants, incinerators and many chemical processes.

Nitrogen dioxide in high concentrations may have a detrimental effect on the respiratory system especially to those with chronic lung disease. Nitrogen dioxide may also react with hydrocarbon compounds in the presence of sunlight to form ozone and other photochemical pollutants, (See section on Ozone) or react with water to form nitire acid, a component of acid precipitation, which may affect health and corrode materials.

Nitrogen dioxide was measured at 26 sites in Ontario in 1981. The maximum annual mean NO2 concentration was 0.036 ppm at Evans/Arnold, Etobicoke. The maximum 1-hour and 24-hour concentrations were measured at Edna/Frederick, Kitchener: 0.34 ppm and 0.11 ppm respectively. The Kitchener site was the only one to exceed the 24-hour criterion of 0.10 ppm doing so once. The 1-hour criterion of 0.20 ppm was exceeded at three sites: Edna/Frederick, Kitchener (9 times), North/Geneva St., St. Catharines (4), and North Park, Hamilton (3).

#### Nitric Oxide: (See Table 12)

Nitric oxide (NO), like nitrogen dioxide, is formed by natural sources such as lightning and bacteria and by high-temperature combustion of fossil fuels such as in automobile engines. In the latter formation, it is nitric oxide which is formed first and, when in high concentration and in the presence of oxygen or hydrocarbons, oxidized further to nitrogen dioxide.

No evidence exists that nitric oxide at the concentrations measured in the ambient atmosphere has any direct adverse effect on health and welfare. However, with its conversion to NO<sub>2</sub>, the effects mentioned previously may occur.

Nitric oxide is measured at 30 sites in Ontario. The maximum annual mean concentration of nitric oxide, 0.082 ppm, was measured at Bathurst/Wilson, North York. The maximum 1-hour concentration was recorded at Edna/Frederick, Kitchener: 0.95 ppm. The maximum 24-hour average of 0.46 ppm was reported at Bathurst/Wilson, North York. Each of these sites is located near a major highway.

#### Nitrogen Oxides: (See Table 13)

Nitrogen oxides, the sum of nitrogen dioxide and nitric oxide concentrations, are measured at 30 sites. The maximum annual concentration of 0.110 ppm occurred at Bathurst-Wilson, North York as was the maximum 24-hour concentration: 0.52 ppm. The maximum 1-hour con-

centration (1.07 ppm) was reported at 467 University Ave. W., Windsor.

#### Suspended Particulate Matter:

Traditionally, air pollution has been identified with black or dark smoke. Improved combustion technology and a switch to cleaner-burning fuels have eliminated most of the sooty particles causing the darkness of the smoke. Suspended particulate matter is still, however, the most visible of air contaminants. The composition varies considerably with time and place and may contain soil particles, organic matter, or compounds containing sulphur, nitrogen, chlorine or metals such as lead.

Suspended particulate matter or its constituents may cause the corrosion or soiling of materials, a decrease in sunlight or atmospheric visibility, damage to vegetation, or adverse effects on human or animal health.

There are many sources of suspended particulate matter both natural and man-made. Fine particles of dust from combustion, incineration, construction, mining, metals smelting and processing, grinding processes, agriculture and transportation constitute much of man's contribution. Natural sources include wind-blown soil, forest fires, ocean spray, and volcanic activity. When the particulate matter is emitted into the atmosphere, most of the larger particles fall to the ground close to their source while the smaller ones may travel distances as great as thousands of kilometres with the wind before settling to the surface. It should be noted, however, that, based on estimates made in the United States, only 5% of the total particulate matter released into the atmosphere comes from controllable sources; the remaining 95% come from natural and fugitive sources.

Suspended particulate matter is collected by either the hi-volume method or the soiling index method in the Ontario network. The hi-volume method collects particles on a glass-fibre filter over a 24-hour period and the sampler is run on a once a day, once every three days, or once every six days cycle. The soiling index method samples on a paper tape for either one or two hours and is run continuously.

#### Soiling Index: (See Tables 14 and 15)

The soiling index is a relative measure of suspended particulate matter in the size range of particles which most easily enter the lungs. In this method, the soiling properties of the particulate matter deposited upon a paper tape are measured by the reduction of light transmitted through the soiled filter. The amount of reduction in transmission is related to the quantity, opacity, and darkness of the deposited particles. The evaluation is carried out on either a 1-hour or 2-hour sampling of air. The method of determining the soiling index differs slightly between the 1-hour and 2-hour sampling. The difference, however, is enough to make the distinction in the reported data necessary. The unit of measure for soiling index is the Coefficient of Haze (COH) per 1000 feet of air sampled.

Twenty-three stations reported soiling index for a 1-hour sampling period in 1981. The maximum annual mean was reported at North Park, Hamilton: 0.72 COH/1000 ft. Three sites, North Park, Hamilton, Barton-Wentworth, Hamilton, and Bathurst-Wilson, North York, exceeded the annual criterion of 0.50 COH/1000 ft.

The maximum 24-hour average (2.0 COH/1000 ft.) was measured at Evans-Arnold, Etobicoke. Sixteen monitoring sites reported 24-hour averages in excess of the 24-hour criterion of 1.0 COH/1000 ft. but only four did so more than 10 times. North Park, Hamilton (76), Bathurst-Wilson, North York (35), Sherbourne/Wilton, Toronto (28), and Barton-Wentworth, Hamilton (24).

Thirty-two stations reported soiling index for 2-hour sampling periods. None exceeded the annual criterion; the maximum annual average reported was 0.31 COH/ 1000 ft. at Burlington/Leeds, Hamilton. Eight sites reported exceedences of the 24-hour criterion but only one more than once.

#### Total Suspended Particulate Matter: (See Table 16)

Total suspended particulate matter (TSP) was measured at 167 sites in Ontario in 1981. Daily monitoring was performed at 30 sites, once every three day monitoring at 18 sites and once every six days monitoring at 119 sites.

The maximum annual geometric mean for TSP occurred at the Bonney St. Pumphouse, Sault Ste. Marie: 130 micrograms per cubic meter (ug/m³). The annual criterion of 60 ug/m³ (geometric mean) was exceeded at 49 sites.

The maximum 24 hour concentration was measured at Stollery Lake Trailer Park near Elliot Lake: 501 ug/m³. One hundred thirty four stations reported exceedences of the daily criterion of 120 ug/m³. The most exceedences at a daily monitoring station were 86 at 35 Bathurst St., Toronto, at a once in three-day station: 53 at Sherbourne/Wilton, Toronto, and a once in six-day station: 26 at Bonney St. Pumphouse, Sault Ste. Marie.

#### Sulphate in Suspended Particulate Matter: (See Table 17)

Sulphates (SO<sub>4</sub>-2) are formed by the oxidation of sulphur to sulphur trioxide which when combined with water vapour forms sulphuric acid (H<sub>2</sub>SO<sub>4</sub>). The sulphuric acid may then combine with ammonia or some other anion to form a sulphate compound.

Many different sources emit sulphur, or sulphur compounds into the atmosphere. Natural sources of sulphur include sea spray, bacterial decomposition, volcanoes and forest fires. Anthropogenic sources include the burning of fuel containing sulphur (such as coal and oil), the smelting of sulphur-containing metals, and the refining of petroleum.

The sulphate compounds, especially the acid forms, have been linked to respiratory irritation and disease, corrosion of materials, reduction of visibility and the formation of acidic precipitation.

Sulphate concentrations reported here are derived from sulphates collected on glass-fibre filters. It has been found that artifact sulphates form on glass-fibre filters from ambient SO<sub>2</sub> and that reported sulphate concentrations are therefore artificially high. No attempt has been made to correct the data reported here. Caution should be taken in interpreting absolute concentrations. Relative comparison among samples or stations is likely less affected.

The highest annual average sulphate concentration (15.0 micrograms per cubic metre) was reported at Bonney St. Pump House, Sault Ste. Marie, as was the maximum measured concentration for 24-hours: 65.0 ug/m³.

Nitrate in Suspended Particulate Matter: (See Table 18) Nitrogen oxide compounds, formed from atmospheric nitrogen and oxygen under high temperature combustion, photochemical reactions or bacterial action may react with other compounds in the air to form nitrate (NO<sub>3</sub>) or nitric acid (HNO<sub>3</sub>).

Natural sources of nitrogen oxides or nitrates include lightning, biological agents, sea spray or photochemical reactions. Anthropogenic sources include all high-temperature combustion processes, transportation, and fertilizer production and usage. Nitrate and nitric acid are involved in corrosion of materials, visibility degradation, and acidic precipitation. They may also be an adverse factor in human health.

Particulate nitrate is collected in the Ontario network on glass-fibre filters. Studies have shown that, like sulphates, artifact nitrates are formed on this filter medium. There remains some controversy as to the degree of artifact formation. The data reported herein are unaltered and user caution is recommended in interpreting absolute concentrations.

The maximum annual concentration of particulate nitrates, 7.0 ug/m³, was reported at City Hall, Windsor. The maximum measured 24-hour concentration was 25.0 ug/m³ at Barton-Wentworth, Hamilton.

### Lead in Suspended Particulate Matter:

(See Tables 19 and 20)

Because of its many useful properties, lead has been utilized by man since antiquity. The health hazards of this metal have also been long recognized. The concern over these hazards focused during the 19th and 20th century on death and serious illness caused mainly by the ingestion of lead. With the near elimination of lead poisoning as a cause of death in the past two decades, attention now has turned to the more subtle adverse health effects of exposure to lead such as the impairment of mental functions.

Much of the particulate lead emitted into the atmosphere results from the combustion of gasoline containing lead additives. Other sources of lead particles include the secondary smelting of lead, battery manufacture, metal fabrication (brass, bronze, and solder), some paint and glass manufacture and the production of iron, steel, copper, and nickel. Since 1972, there has been a reduction in the lead content of gasoline. This reduction coupled with the introduction of lead-free gasoline in 1975 has resulted in a decrease in the amount of lead emitted from gasoline usage in Ontario.

The lead concentration on the hi-volume filters is determined by either X-ray fluorescence or atomic absorption spectrophotometry. Results for these two techniques are reported separately.

Maximum lead concentration are found in the vicinity of lead processing plants in the Metropolitan Toronto area. These operations have been under special intensive study since 1973. The maximum annual average concentration was measured at 2360 Dixie Road, Mississauga: 3.6 ug/m³. The highest single 24-hour measurement also occurred at this site: 29.7 ug/m³. The 24-hour criterion of 5.0 ug/m³ was exceeded 93 times across this network. The most exceedences (77) were registered at 2360 Dixie Road, Mississauga.

The maximum concentrations at stations not near lead processing plants are found at stations monitoring close to major traffic arteries. The maximum annual mean concentration was recorded at Edna/Frederick St., Kitchener: 4.2 ug/m³. The highest single measurement was 1.3 ug/m³ at Evans/Arnold Ave., Etobicoke. No sites measured lead concentrations in excess of the 5.0 ug/m³ criterion.

#### Iron in Suspended Particulate Matter: (See Table 21)

Iron particles are among the most abundant of the heavy metals emitted into the air. Major sources include iron ore processing, steel manufacturing, incineration, coal burning, smelting of other metals and road dust. Iron is also released as the result of the weathering of iron/steel materials such as the rusting of automobiles. Natural sources of iron particles include volcanoes and terrestrial dust from the weathering of rocks and soil.

The analysis of the iron content of particulate is performed by atomic absorption spectrophotometry (AA) for induced coupled plasma techniques (ICP).

#### Nickel in Suspended Particulate Matter: (See Table 22)

The maximum 24-hour concentration for nickel occurred at Davis/Frazer, Port Colborne: 3.430 ug/m³. This station was the only one to exceed the criterion of 1.5 ug/m³ doing so twice in 1981. The highest annual geometric mean was found at the Nickel Street Pump House, Copper Cliff: 0.240 ug/m³.

#### Copper in Suspended Particulate Matter: (See Table 23)

Sault College, Queen St., Sault Ste. Marie recorded the highest annual average concentration of particulate copper in 1981 (0.50 ug/m³). The highest 24-hour concentration was 2.10 ug/m³ collected at the Pickering Fire Hall, Pickering, well below the Ontario criterion of 50.0 ug/m³.

#### Cadmium in Suspended Particulate Matter: (See Table 24)

The maximum 24-hour concentration, 0.384 ug/m³ was measured at 3050 Lakeshore Blvd., Etobicoke, as was the maximum annual average: 0.018 ug/m³. The criterion of 2.0 ug/m³ for a 24-hour average was not exceeded.

# **Chromium in Suspended Particulate Matter:** (See Table 25)

The 633 Eastern Ave., Toronto monitor recorded the highest annual average chromium concentration in 1981: 0.066 ug/m³. The highest 24-hour measurement in the Province, 0.691 ug/m³, was at Barton/Wentworth, Hamilton. The criterion of 1.5 ug/m³ for a 24-hour average was not exceeded.

#### Zinc in Suspended Particulate Matter: (See Table 26)

Maximum zinc concentrations were recorded at Burlington/Leeds, Hamilton for the annual average (1.1 ug/m³) and Barton/Wentworth, Hamilton for the 24-hour average (9.0 ug/m³).

#### Manganese in Suspended Particulate Matter:

(See Table 27)

The maximum manganese concentrations for a 1-year average (0.518 ug/m³) and 24-hour average (1.497 ug/m³) were recorded at Bonney St. Pumphouse, Sault Ste. Marie and North Park, Hamilton respectively. The 24-hour criterion was not exceeded.

#### Vanadium in Suspended Particulate Matter: (See Table 28)

The highest annual average concentration for particulate vanadium, 0.014 ug/m³, occurred at General Hospital, 220 Milton St., Sarnia. The 24-hour maximum of 0.141 ug/m³ was reported at Chatham/Frid, Hamilton. No exceedences of the 2.0 ug/m³, 24-hour average criterion was measured in 1981.

#### Ontario's Air Pollution Index: (See Table 29)

Despite the best efforts of pollution control, the emission of contaminants into the air cannot be totally eliminated without bringing all man's activities to a halt. Whenever pollutants are released to the atmosphere, the potential exists for the buildup of concentrations to unacceptable levels during weather conditions which are unsuitable to their dispersion or removal (e.g. light winds, limited vertical mixing depth). Since it is economically unrealistic, and at times impossible, to control emissions so that under *no* circumstances will pollution concentrations approach critical levels, there is a need for an alert system to warn of increasing pollution concentrations.

The Air Pollution Index (API) was introduced in Ontario in 1970 to protect the public from air pollution episodes caused by emissions under adverse weather conditions. Two pollutants, sulphur dioxide and suspended particle matter, were chosen for the Index based upon the results of health studies during severe air pollution episodes. These studies showed a definite correlation between illness and high concentrations of SO<sub>2</sub> and TSP. The API was thus devised as a basis for action in an alert system to control or prevent an air pollution episode caused by these two pollutants. Legislation in Ontario authorizes the Minister of the Environment to order any source not essential to public health and safety to curtail or cease its operations when pollutant concentrations which may be injurious to health are reached.

The Ontario API is calculated from the average SO<sub>2</sub> concentration and average soiling index for the preceding 24 hours. Hourly concentrations of these pollutants are measured in each city where an Index is reported and sent via the Ontario Air Quality Telemetry Network to the Air Resources Branch office in Toronto. There, a computer calculates the 24-hour averages and the resulting API which is released to the public. Whenever the API reaches critical levels, the duty meteorologist is informed and then, based upon his forecast, action may be taken by Regional Abatement Officers.

If the API reaches 32, and the duty meteorologist forecasts a continuation of adverse weather conditions for the next six hours, an "Air Pollution Advisory" is issued. At this time, significant sources of SO<sub>2</sub> and particulate matter are advised to curtail operations.

The "First Alert" level occurs at an API of 50 with meteorological conditions expected to continue for at least six hours. Major sources may be ordered by the Minister to curtail operations.

If abatement action does not succeed in stopping the rise in API, or if weather conditions worsen, a "Second Alert" is issued at 75. With a forecast of continued adverse weather, the Minister may order further curtailment.

At 100, an "Air Pollution Episode Alert" is issued and, again with a forecast of six hours of adverse weather conditions, all non-essential sources may be ordered to shut down their operations by the Minister. At this level, the pollution concentrations may have an effect on healthy individuals and may seriously endanger the health of those with severe cardiac or respiratory disease.

The Air Pollution Index Alert System was first introduced in Toronto on March 23, 1970. Since that time it has expanded to other Ontario cities: Hamilton in June 1970, Sudbury in January 1971. Windsor in March 1971, Happy Valley in May 1971, Welland in January 1974, Niagara Falls in November 1974, Coniston in February 1975, New Sudbury in March 1976, Sarnia in December 1977, and St. Catharines in September 1979. The Happy Valley API was terminated in January 1975 and the Welland API was terminated in October 1978.

No API station exceeded 50 in 1981. The maximum recorded API in the Province occurred on November 14 in Toronto when an Index of 43 was reached. The Advisory Level of 32 was reached on 8 occasions in Hamilton, 3 in Toronto, and once in Windsor and Sarnia.

The history of the Index stations – the maximum level and the number of times the Index equalled or exceeded 32 and 50 for the years 1970 to 1981 are given in Table 29.

Table 1 Stations with Continuous Sampling Instrumentation (Pollutant data abstracted hourly or two-hourly)

					SITE ELE- VATION ABOVE MEAN SEA	AIR INTAKE ABOVE							
REGION	STATION NUMBER	NAME OF STATION	UTM EAST	GRID NORTH	LEVEL (METRES)	GROUND (METRES)	TRS	SO <sub>2</sub>	PO COH	LLUTA O <sub>3</sub>	CO	NITOR HC	NO <sub>x</sub>
SOUTH WEST	10001	College of Agric. Tech., Huron Park	04600	47931	243	5				x			
	12008	467 University Ave. W. Windsor	03316	46867	183	11		x	×	x	x	x	×
	12013	3665 Wyandotte St. Windsor	03358	46874	183	6		x					
	12016	College-South St. Windsor	03290	46841	183	4		x	x				
	12032	Morton Dock Windsor	03271	46817	177	4	x	×					
	13021	MOE Pump. Stn. Middle Road	3327	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	23.5		(68)	3.53					
	14004	Merlin Hydro SS	03991	46776	190	3				x			
	14016	Concession 14/15 Courtright Lambton G.S.	03808	47343	183	3		x					
	, , , , ,	Hwy. 40 Courtright	03793	47397	180	4		x					
	14062	242 Indian Rd. S., Sarnia	03878	47578	183	4	x	×					
	14064	Centennial Park Front St/CN Tracks Sarnia	03854	47592	182	3		x	x	×	x	x	x
	14118	PUC Water Pump Stn Hwy. 21 Petrolia	04027	47564	206	4		:=a		×			0.71
	14903	Virgil LaSalle Froomfield								^			
	14904	Corunna East Sombra P.S.	03814	47520	193	3						x	х
	15001	Wilkesport King-Rectory	03892	47285	190	3		х		×		X	X
	15003	London 362 Dundas St.	04818	47595	259	4		X	×	x	X	x	x
	18007	London Concession Rd. 2 Lot A	04801	47590	251	17			×				
		Tiverton	04541	49053	192	4	×	x		x			
WEST CENTRAL	22071	Experimental Farm Simcoe	05597	47449	236	4		x	×	x			×
	22086	Cheapside Rd. 3 Km S of Hwy 3 Nanticoke	05821	47472	206	5		x	×				x
	26029	Edna/Frederick St. Kitchener	05427	48116	325	5		x	×	x	×		x
	27037	North/Geneva St. St. Catharines	06431	47805	107	5		x	x	x	x	x	x
	27042	Niagara Falls Rd./ Ontario St. Thorold	06460	47720	175	5							
	27046	Public Works, 200 m S Beaverdam Rd.	06469	47739	175			x					
	27048	Thorold Niagara Public Works Dominion Rd.	06460	47742	180	5		x					
	27049	Fort Erie Murray/Buchanan Ave.	06670	47500	175	2		×					
	27051	Niagara Falls Holy Trinity Church Norton/Portage	06561	47716	195	5		x	x				
	28025	Chippawa Farquhar/Wyndham St.	06580	47694	185	16	×	. <b>x</b>	x				
	29001	Guelph Hughson-Main	05609	48213	320	4		x	x				
	20001	Hamilton	05918	47894	99	9			x				

Table 1- Continued . . .

REGION	STATION NUMBER	NAME OF STATION	UTM EAST	GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TRS	so,	PO COH		NT MO	NITOR HC	ED NO.
VEST	29008	North Park						2		-			
ENTRAL	29009	Hamilton Kenilworth	05984	47927	79	3	×	×	×			Х	х
	29011	Hamilton Burlington/Leeds	05967	47884	92	9			X				
	29011	Hamilton Burlington- Wellington	05954	47905	79	5			X				
	22245	Hamilton	05931	47914	84	4			×				
	29015	Merrick St. Hamilton	05917	47900	92	17			х				
	29017	Chatham-Frid Hamilton	05898	47896	99	5			х				
	29025	Barton-Wentworth Hamilton	05939	47900	92	4	x	x	×	х	×		x
	29067	450 Hughson St. Hamilton	05925	47913	84	5			×				
	0.1.00.1	Control of the Contro	05925	47913	04	3			^				
RAL	31001	67 College St. 5th Floor Toronto	06300	48352	104	20		х	x	×	×	х	×
	31049	Mission, 381 Yonge Street, Toronto	06304	48351	91	4					×		
	31086	15 Breadalbane		48355	104	4				x	x	x	
	31090	Toronto 67 College St. 2nd Floor, Toronto	06302	48352	104	4		X		Α.	×		Х
	31104	26 Breadalbane											
	31105	Toronto API Sherbourne/Wilton	06302	48356	104	15		Х	X	Х	×	Х	х
	31120	Toronto Junction Triangle Perth Ave.	06317	48338	76	5		Х	х	Х	X		Х
	22222	Toronto	06248	48344	113	9		х	х	х	х		Х
	33003	Lawrence-Kennedy Scarborough	06389	48452	168	3		×	x	Х	x	x	x
	33019	Met. Branch, Scar. Bluffs, Scarborough Science Centre	06422	48411	152	3		х	x				
		Don Mills Rd. North York	06338	48419	107	9		х	×	x	×	x	×
	34007	Bathurst-Wilson North York	06261	48437	214	2		×	x		x	x	х
	35003	Elmcrest Rd.				4				4			
	35005	Etobicoke Queensway Hospital Etobicoke	06142	48338 48293	152	9		x	x	х	х	X	X
	35008	22-36th St.											
	35033	Etobicoke Evans-Arnold	06190	48281	92	2			X				
	35050	Etobicoke MOE Lab.	06192	48302	107	3		х	x	X	×	×	х
	44008	Resources Road Etobicoke Hwy. 2/North Shore Blvd. E.	06175	48405	152	18		х	х				
	44015	Burlington Bronte Rd./Woburn Cres.	05972	47964	270	17		×	×	×			Х
	45024	Oakville 206 Eulalie St.	06031	48059	91	5	х	х	×	х	х	х	х
	45025	Oshawa Ritson Rd./Olive Ave.	06723	48623	101	1			х				
		Oshawa	06724	48624	107	4		х	×	х	×		х
	46025 46033	Public Library Mississauga Fire Hall	06115	48257	137	5			х				
	46100	Bramalea Public School	06053	48398	198	4			х				
	10100	Green Glade Road, Mississauga	06124	48187	92	11		x					

Table 1 - Continued . . .

	STATION	NAME OF	ПТМ	GRID	SITE ELE- VATION ABOVE MEAN SEA LEVEL	AIR INTAKE ABOVE GROUND			BO.	LLIITA	NT MO	NITOP	ED
REGION	NUMBER	STATION	EAST	NORTH	(METRES)	(METRES)	TRS	SO2	СОН	03	CO	нс	NO,
CEN- TRAL	46110	Queensway West/ Hurontario St. Mississauga	06122	48249	101	5							
	47035	M. of A., 509 Victoria St. E.						X	×	x	X		x
	48002	Alliston MTC Yard, Hwy. 47	05918	48898	183	4				×			
	49010	Stouffville Hwy. 117/Paint Lake Rd. Dorset	06391 06624	48694 50096	259 323	4 3		×	x	x			
	59006	City Hall 500 George St. Peterborough	07137	49095	198	18			v	X			
SOUTH	51001	McDonald Gdns.						x	x				
EAST	51038	Ottawa General Hospital 342 McGill	04471	50312	61	4		x	x	x	x		×
G.	52020	Hawkesbury Churchill Park	05300	50535	46	15		×					
	56051	Napier St., Kingston Memorial Park	03795	48986	82	5		×	x				
	56068	Cornwall 435 Second St. W. Cornwall	05208 05205	49846	61 66	<b>4</b> 6	×	×	x	X	x		X
NORTH WEST	61010	Lassie/Dickenson Roads		i	,	-							
	61026	Balmertown 56 King St.	04480	56670	381	3		×					
	62030	Dryden Portage/Church Fort Frances	05117	55140 53838	366 336	5 4	×						
	62032	Cemetery, Coloni- zation Road Fort Frances	04697	53841	336	5	x						
	63022	Hospital 35 Algoma St. N.	03356				•	22	220				
	63040	Thunder Bay 435 James Street Thunder Bay	03302	53672 53607	223 189	22 15		x	x	x			
	63046	Montreal St. Thunder Bay	03298	53584	191	15	x	0.	2	^			
	63084	Recreation Centre Red Rock	04080	54216	251	7	x						
NORTH EAST	71001	29 Hillcrest Ave. Wawa	06655	53186	303	4		×					
	71049	Land Reg. Office Queen St. Sault Ste. Marie	07047	51543	182	6		x		x			
	71057	Michipicoten Ave. Lot 38 Town of Mission	06625	53110	198	4		x		x			
	71058	Sir James Dunn Public School											
	71059	Wawa Carl M. Beck Public School	06663	53180	303	10		x					
	72063	Wawa Municipal Garage Smooth Rock Falls	06661	53181	243	10		×					
	75010	OPP Station North Bay	04537 06197	54586 51305	231 212	10 4	×	×					
	77001	Penage Sudbury Airshed	04730	51250	275	3		×					
	77009	Burwash Sudbury Airshed	05144	51228	227	3		×					
		services of proportion control of proportion over \$100,000 (Sec.)				560							

Table 1 - Continued . . .

				•	SITE ELE- VATION ABOVE MEAN SEA	AIR INTAKE ABOVE							
REGION	STATION	NAME OF STATION	UTM EAST	GRID NORTH	LEVEL (METRES)	GROUND (METRES)	TRS	SO <sub>2</sub>	PO COH		O CO	NITOR	NO <sub>x</sub>
NORTH-	77010	Callum								3	-		
EAST	77012	Sudbury Airshed Skead	05270	51525	275	3		×					
		Sudbury Airshed	05186	51678	272	3		×					
	77013	Hanmer Sudbury Airshed	05041	51663	288	3		×					
	77014	Rayside Sudbury Airshed	04934	51615	275	3		x					
	77016	Ash Street Water Tank Sudbury	04994	51486	290	3		x			Ü		
	77018	St. Charles							x	x	x		x
	77023	Sudbury Airshed Happy Valley	05449	51343	227	3		X					
	77028	Falconbridge Government/Edward	05146	51564	288	5		×					
	77065	Coniston Falconbridge Rd., Garson	05118	51480	242	5		×	×				
		Sudbury District	05109	51559	288	5		×					
	77066	Temagami Sudbury Airshed	05704	52022	294	5		×					
	77067	Chiniguchi Sudbury Airshed	05264	52013	315	5		×					
	77075	Kennedy St. New Sudbury	05044	51520	261	5		×	×				
	77092	Laurent. Hosp. 41 Ramsey Lake Rd.			, <del></del>								
	77096	Sudbury	05004	51459	259	12		×					
	77096	Long Lake Rd. Sudbury, Villa Loyola	04992	51387	275	4		x					
NEMP	22901	100 M S. Hwy 59											
	22902	Long Point Prov. Pk. Tyneside/Chippewa Rd.	05502	47138	174	4		×	×	×	×		х
	22903	Binbrook West Cheapside Rd./Walpole	05914	47746	213	5		×	x	×	×		х
	EESSS	Conc. 5 Nanticoke	05004	47.470	200								
	22904	Walpole South PS	05821	47472	206	4	×					X	
		Sandusk Rd. Nanticoke	05794	47434	198	4	×					×	
	22905	Nanticoke Rd./ Walpole Conc. 5											
	22906	Nanticoke Sandusk Rd.	05744	47456	198	4	×					×	
	22000	Btwn. Walpole Conc. 4/5	05707	47450	640	10							
	22907	Sandusk Nanticoke Village	05787	47458	649	12							
		WNW 03	05752	47398	186		×						

Table 2 Stations with Hi-Volume Sampling for Suspended Particulate Matter (Pollutant data collected for 24-hour period)

	STATION	NAME OF	SURVEY		DINATES GRID	SITE ELE- VATION ABOVE MEAN SEA LEVEL	AIR INTAKE ABOVE GROUND			ANALYSES	
REGION	NUMBER	STATION	TYPE	EAST	NORTH	(METRES)	(METRES)	TSP	Pb(XRF)	METALS	SO4-2/NO3-
SOUTH- WEST	10015	PUC Bldg. 64 West St. Goderich	A6	04425	48434	213	6	x			
	11001	35 Thomas St.									
	12002	St. Marys City Hall, 44 Windsor Av	. A6	04879	47884	305	3	x			
		Windsor	AN6	03323	46867	183	17	x	×	×	×

Table 2 - Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	Pb(XRF)	ANALYSES METALS	SO <sub>4</sub> -2/NO <sub>3</sub> -
SOUTH	12005	7730 Riverside Dr. W.					- 15/				
WEST	12008	Windsor 467 University Ave. W.	A6	03395	46890	174	7	×		×	×
		Windsor	A1	03316	46867	183	9	×	×	×	×
	12009	9725 Riverside Dr. E. Little River	A6	03413	46888	180	2	×	×		×
	12010	Tecumseh Sewage Stn. Manning Road						^	•		8
	12013	Windsor Filtration Plant 3665 Wyandotte St. E.	A6	03460	46875	180	2. 45 2.	X		x	x
	12014	Windsor University Met. Stn.	A6	03358	46874	183	8	x		×	×
		College/Calif. St. Windsor	A6	03304	46849	183	3	×		×	x
	12015	Sewage Plant Hwy 18/Prospect									
	12016	Windsor	<b>A6</b>	03283	46833	175	6	×		×	x
		College/South St. Windsor	A6	03290	46841	183	4	x			
	12032	Morton Dock Bedford/Ojibway	46	02071	46017	175			-		
	12036	Windsor 1802 George St.	A6	03271	46817	175	4	×	x		×
	12037	Windsor 3225 California St.	A6	03367	48658	186	5	×			
	12039	Windsor Dougall/E.C. Row W.	<b>A</b> 6	03327	46816	183	5	×			
	12052	Windsor Simone	A6	03337	46821	195	5	x			
	12052	368 Texas Road Amherstburg	A6	03267	46658	180	4	x			
	12053	415 Front St. Amherstburg	A6	03253	46657	187	10	x			
	13003	Post Office 10 Center St.									
	13022	Chatham RR#3 NNW of House	AN6	04024	46952	156	12	×		x	X
	13023	Blenheim RR #1 Behind	AN6	04135	46853	198	J.	×		x	x
	13024	The Barn Blenheim Jackson Farm	A6	04138	46838	198	1	×		×	×
		Blenheim	A6	04127	46840	198	1	x		×	×
	13025	RR#2 Behind the Barn Merlin	A6	04120	46486	198	1	x		x	×
	14001	General Hospital 220 Minton St.									
	14016	Sarnia Opposite Lambton GS Hwy 40	AN6	03860	47587	183	17	×		x	x
	14030	Courtright RR #1	A6/1	03793	47397	183	1	x		×	×
	14031	West of the House Corunna RR #1	A6	03949	47486	200	1	x		×	×
	14054	West Side of Barn Mooretown Sarnia Yacht Club	A6	03938	47461	200	1	x		×	x
		Port Edward Sarnia	A6	03846	47617	181	- 5	×	×		x
	14057	Briarwood Rec. Centre Hwy. 7, Sarnia	A6	03926	47586	183	9	x			
	14059	St. Clair Blvd/Hwy 40 Corunna	AN6	03813	47481	192	4	×			

Table 2 - Continued . . .

SOUTH NEST	REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	Pb(XRF)	ANALYSES METALS	SO <sub>4</sub> ·2/NO <sub>3</sub> ·
Sarnia		14064										
14151   St. Clair River   David/Front St. Sarnia   A6   0.3852   47588   182   4   x   x   x   x   x   x   x   x   x	WEST							14.1				
14904		14151		Ab	03854	4/596	192	4	×	x		×
Samila		14131										
Wilksport   Wilksport   Western Fair Grounds   Western Fair Ground				A6	03852	47588	182	4	×			x
15001   Western Fair Grounds   King/Rectory   London   A6   04818   47595   259   4   x   x   x   x   x   x   x   x   x		14904					120	9				
King/Rectory   London   A6   O4818   47595   259   4		15001		A6	03892	47285	190	3	×			
15003   362 Dundas SI.   London   AN6   04801   47590   277   17												
London		45000		A6	04818	47595	259	4	×	×	x	x
15006 BP Station   1009 Taibot St.   St. Thomas   S6   04856   47361   229   4   x   x		15003		ANE	04901	47500	077					
1009 Talbot St.   St. Thomas   S6   04856   47361   229   4		15006		ANO	04801	4/590	2//	17	x	×		X
15007   Fern Ford   1012 Talbot St.   St. Thomas   S6   04857   47360   229   9   x												
1012 Talbot St.   St. Thomas   S6   04857   47360   229   9   x		45005		S6	04856	47361	229	4	×			
St. Thomas		15007										
17006				S6	04857	47360	229	9	×			
Beachville   S6		17006		0.2.2.1	11.071.100.12		220		^			
17019						100100000000000000	Authorism.	1000				
WEST-   22031   Selkirk		17019		S6	05132	47696	302	5	×			
WEST- 2031 Selkirk		17010		SN6	05238	47747	305	12	x	x		
22056	WEST-	22031	Selkirk									
22089	CENTRAL	22056	Port Dover	ANIC	05641	47200	100	~ <b>**</b>				
Experimental Farm   Simcoe												
2086   Cheapside Rd.   3 km S. of Hwy 3   Nanticoke					00.00	71.701	200	-	•			
3 km S. of Hwy 3   Nanticoke   A6   05821   47472   206   1   x   x   x   x   x   x   x   x   x		20222		A6	05597	47449	236	1	×			x
Nanticoke   A6   05821   47472   206   1		22086	사람이 있는 경기에서 가득하면 하다면 하면 사람이 사람이 있다면 하다.									
2087				A6	05821	47472	206	1	×			×
Jarvis		22087	A STATE OF THE PARTY OF THE PAR									
Edna/Frederick St. Kitchener			District and the second	46	05704	47404	100	240				
Kitchener   A6		26029		Ab	05/24	4/481	180	4	x			
26035			Contraction of the Contraction o	A6	05427	48116	325	4	x	×		x
Kilchener   S6		26035										
27008				\$6	05396	48100	335	6	v			
27009		27008		00	00000	40103	000	ŭ	^			
Chippawa S6 06581 47693 183 4 x  Stanley/Chippawa Rkwy, Chippawa AN6 06562 47679 206 4 x  27030 Killaly E/James Port Colborne S6 06444 47501 180 5 x x x  27037 North/Geneva St. St. Catharines A6 06431 47805 106 5 x x x x  27045 337 Alberta at Devon St. Welland S6 06433 47587 180 1 x  27047 Davis/Frazer Port Colborne S6 06435 47497 180 3 x x x  27048 Niagara Public Works Dominion Road Fort Erie A6 06670 47500 175 2 x x x  27049 Murray/Buchanan Ave. Niagara Falls AN6 06561 47716 195 5 x x x x x  28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x x  28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x x				A6	06425	47797	108	12	×			x
Stanley/Chippawa		27009		26	06501	47602	100	- A	997			
Pkwy, Chippawa AN6 06562 47679 206 4 x  27030 Killaly E/James Port Colborne S6 06444 47501 180 5 x x x  27037 North/Geneva St. St. Catharines A6 06431 47805 106 5 x x x x  27045 337 Alberta at Devon St. Welland S6 06433 47587 180 1 x  27047 Davis/Frazer Port Colborne S6 06435 47497 180 3 x x x  27048 Niagara Public Works Dominion Road Fort Erie A6 06670 47500 175 2 x x x  27049 Murray/Buchanan Ave. Niagara Falls AN6 06561 47716 195 5 x x x x  28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x  28025 Farquhar/Wyndham St. Guelph SN6 05609 48213 320 9 x x x x  28026 448 College W.		27014		36	06561	4/693	183	4	x			
Port Colborne   S6   06444   47501   180   5   x   x   x				AN6	06562	47679	206	4	×			
Port Colborne   S6   06444   47501   180   5   x   x   x		27030	Killaly E/ lamos									
North/Geneva St.   St. Catharines   A6   06431   47805   106   5   x   x   x   x   x   x   x   x   x		27000		S6	06444	47501	180	5	x		×	
27045 337 Alberta at Devon St. Welland S6 06433 47587 180 1 x  27047 Davis/Frazer Port Colborne S6 06435 47497 180 3 x x  27048 Niagara Public Works Dominion Road Fort Erie A6 06670 47500 175 2 x x  27049 Murray/Buchanan Ave. Niagara Falls AN6 06561 47716 195 5 x x x x  27050 4057 Victoria Ave. Niagara Falls S6 06567 47752 175 4 x  28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x  28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x x		27037									570	
Welland S6 06433 47587 180 1 x  27047 Davis/Frazer Port Colborne S6 06435 47497 180 3 x x  27048 Niagara Public Works Dominion Road Fort Erie A6 06670 47500 175 2 x x  27049 Murray/Buchanan Ave. Niagara Falls AN6 06561 47716 195 5 x x x x  27050 4057 Victoria Ave. Niagara Falls S6 06567 47752 175 4 x  28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x  28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x x  28026 448 College W.		27045			06431	47805	106	5	×	x		×
Davis/Frazer		27045			06433	47587	180	1	¥			
27048 Niagara Public Works		27047				NA 7007078-50		3,492	52%			
Dominion Road   Fort Erie   A6   06670   47500   175   2   x   x   x   x   x   x   x   x   x		27048		S6	06435	47497	180	3	×		x	
Fort Erie A6 06670 47500 175 2 x x x x x 27049 Murray/Buchanan Ave. Niagara Falls AN6 06561 47716 195 5 x x x x x x x x x 27050 4057 Victoria Ave. Niagara Falls S6 06567 47752 175 4 x 28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x x x x x x x x 28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x x x x x x x x x x x x x x x x		27048										
27049 Murray/Buchanan Ave. Niagara Falls AN6 06561 47716 195 5 x x x x  27050 4057 Victoria Ave. Niagara Falls S6 06567 47752 175 4 x  28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x  28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x x  28026 448 College W.			Fort Erie	A6	06670	47500	175	2	×			x
27050 4057 Victoria Ave. Niagara Falls S6 06567 47752 175 4 x  28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x  28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x  28026 448 College W.		27049										.55
Niagara Falls S6 06567 47752 175 4 x 28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x 28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x 28026 448 College W.		27050		AN6	06561	47716	195	5	×	×		×
28024 95 Inkerman St. Guelph SN6 05597 48203 330 1 x x 28025 Farquhar/Wyndham St. Guelph A6 05609 48213 320 9 x x x 28026 448 College W.		2,000		S6	06567	47752	175	4	×			
28025 Farquhar/Wyndham St.  Guelph A6 05609 48213 320 9 x x x x x x 28026 448 College W.		28024	95 Inkerman St.				ilvitatio	) 1 Tu	1.50			
Guelph A6 05609 48213 320 9 x x x x 28026 448 College W.		28025		SN6	05597	48203	330	1	×		×	
28026 448 College W.		20020			05609	48213	320	9	¥	•		v
Guelph S6 05597 48184 325 1 x		28026	448 College W.					<b>U</b>		•		
			Guelph	S6	05597	48184	325	1	x			

Table 2 - Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	Pb/XRF\	ANALYSES METALS	SO <sub>4</sub> -2/NO <sub>3</sub> -
				LAGI	11011111	(METTIES)	(METHEO)	101	, D(All )	III TALO	004 7.103
WEST CENTRAL	28027	Hanlon Expwy/Speed River, Guelph	S6	05594	48190	300	6	×			
	29001	Hughson/Hunter Hamilton	AN6	05918	47894	99	9	×		×	x
	29007	City Hall Hamilton	AN6	05914	47895	107	46	×			
	29008	North Park Hamilton	SN1	05984	47927	79	4	×	×	x	x
	29009	Kenilworth Hamilton	AN6	05967	47884	91	5	×			
	29011	Burlington/Leeds									
	29012	Hamilton Burlington/Wellington	S6	05954	47905	79	5	x		x	×
	29017	Hamilton Chatham/Frid	AN6	05931	47914	84	7	×		×	×
	29025	Hamilton Barton/Wentworth	<b>A</b> 6	05898	47896	99	5	×	×	×	×
		Hamilton	SN1	05939	47900	91	4	×	×	×	×
	29067	450 Hughson St. N. Hamilton	AN6	05925	47913	84	5	×		×	
	29085	Upper Wellington/ Inverness									
		Hamilton	<b>A6</b>	05921	47880	195	5	×		×	×
	29087	405 Cumberland Ave. Hamilton	A6	05946	47882	95	4	x			×
	29089	Barton/Nash Hamilton	A6	06000	47879	85	6	x			
	29090	Westdale Library Hamilton	A6	05890	47903	100	5	x			
CENTRAL	24224	07.0-11 01.515.51-									
CENTRAL	31001	67 College St. 5th Fir. Toronto	AN1	06300	48352	104	20	x	x		×
	31018	35 Bathurst St. Toronto	S1	06289	48332	84	6	×	×	×	
	31026	360 Christie St. Toronto	Α1	06272	48367	126	6	×			x
	31058	Mosley/Leslie St. Toronto	SN1	06346	48353	76	5	x	×	x	
	31064	17 Berkshire Ave.					1				
	31065	Toronto 633 Eastern Ave.	SN1	06345	48353	77		x	x	x	
	31079	Toronto Fire Hall	SN1	06344	48351	79	12	×	x	×	
		1285 Dufferin St. Toronto	SN1	06259	48359	122	10	x	×		
	31082	Works Dept. 138 Hamilton Ave.									
	31084	Toronto Maydwell Mfg.	SN1	06325	48354	91	4	×	x		
	31004	65 Saulter St.				0.5					
	31085	Toronto Tecumseth/Niagara St.		06333	48351	85	6	×	×		
	31086	Toronto 15 Breadalbane	S1	06287	48330	84	6	×	×		
	31088	Toronto 880 Bay St.	A1	06302	48355	104	4	×	×		
		Toronto	AN1	06301	48355	104	18	×			
	31099	Pal Elec., Pape Ave. Toronto	S1	06342	48352	76	5	x	x	x	
	31104	26 Breadalbane Toronto	AN1	06302	48356	104	12	x	x	x	x
	31105	Sherbourne/Wilton St. Toronto	AN3	06317	48338	76	5	×	x		×
	31120	Junction Triangle,								<b>10</b> 0	
	33003	Perth Ave. Toronto Lawrence/Kennedy	SN3	06248	48344	116	11	x	x	x	×
		Scarborough	A3	06389	48451	160	1	×	×	x	×

Table 2 - Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	Pb(XRF)	ANALYSES METALS	SO <sub>4</sub> -2/NO <sub>3</sub> -
CENTRAL	33019	Met. Branch,	-								
11000111-0-00001-0-000	34002	Scarborough Buffs, Scarborough Science Centre	АЗ	06422	48411	152	1	x	×		x
		770 Don Mills Rd. North York	АЗ	06338	48419	107	8	x	x	×	×
	34007	Bathurst/Wilson North York	АЗ	06259	48435	183	7	x	x		×
	35003 35005	Elmcrest Rd. Etobicoke Queensway Hospital	АЗ	06142	48338	152	1	x	X	x	×
	35033	Etobicoke Evans/Arnold Ave.	AN3	06159	48293	107	15	x			X
	35037	Etobicoke 3050 Lakeshore Blvd W.	АЗ	06192	48302	107	1	x	×	×	×
	35050	Etobicoke MOE Lab.	A1	06201	48285	88	6	x	x	×	×
	35051	Resources Rd. Etobicoke Radiation Lab,	AN3	06175	48405	152	20	x			
	44008	Resources Rd., Etobicoke Hwy. 2/North Shore	AN1	06175	48403	146	15	×			
	44015	Blvd. E. Burlington Bronte Rd./	АЗ	05972	47964	270	4	x			×
	45004	Woburn Cres. Oakville	S3	06031	48059	91	1	x	x		x
	45001 45003	Pickering Fire Hall Pickering McDonald PS	S1	06551	48548	91	1	×		x	×
	45003	McDonald PS Pickering O'Sullivan,	S1	06554	48538	91	7	x			
	45005	Station Rd. Pickering Frenchman's Bay	S1	06563	48545	91	1	x			
	45006	Sewage Pickering Lakeshore Park Sewage	S1	06543	48526	76	Ť	x			
	45007	Pickering Ajax-Pickering Hospital	S1	06602	48538	81	1	x			
	45008	Pickering Dufferin Creek Sewage	SN1	06596	48555	91	17	x			
	45011	Plant Pickering Public Library	S1	06565	48533	91	3	x			
	45025	Oshawa Ritson Rd/Olive Ave.	AN6	06714	48623	114	13	×			x
	46025	Oshawa Mississauga Public Library	A3	06727	48618	104	5	x	X		X
	46033	Mississauga Bramalea Fire Hall	A6	06115	48257	137	7	×		×	x
	46045	Bramalea 2365 Dixie Rd.	A6	06053	48398	198	5	×			x
	46046	Mississauga 2360 Dixie Rd.	S1	06148	48288	113	7	×	x		
	46110	Mississauga Queensway W/ Hurontario St.	S1	06147	48286	111	14	x	×		
	47019	Mississauga Post Office 17-25 Peter St. N.	A3	06122	48249	101	1	x	×		x
	48002	Orillia MTC Yard #9, Hwy 47	A6	06255	49406	229	12	×			×
		Stouffville	<b>A6</b>	06391	48694	259	Ĩ	×			

Table 2 - Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	Pb(XRF)	ANALYSES METALS	SO <sub>4</sub> -2/NO <sub>3</sub> -
CENTRAL	58027	51 Shuter St. Port Hope	S1	07177	48694	84	5	x	1902		x
	58028	2 Choate St. Port Hope	S1	07168	48689	94	5	×			×
	58029	66 Queen St.									
	59006	Port Hope City Hall 500 George St. Peterborough	S1 AN3	07172	48695 49095	91 198	5	x	×	×	x
SOUTH- EAST	51001	McDonald Gdns Rideau/Wurtemburg St. Ottawa	A6	04471	50312	84	4	x	x		×
	51018	55 Queen St. Ottawa	A6	04454	50299	84	30	×	•		×
	52017	106 Clarence St. Kingston	AN6	03815	48984	82	12	×			×
	54013	Post Office Bldg.									
	56006	Belleville 4 Montreal Rd.	A6	03095	48926	98	8	x		×	×
SOUTH-	56015	Cornwall General Hospital	A6	05223	49848	59	9	x			x
EAST	56051	Brockville Memorial Park	AN6	04458	49383	99	20	x	×		×
		Cornwall	A6	05208	49846	53	4	x	×		x
NORTH- WEST	62013	Weather Station Atikokan	A6	06030	54008	366	1	×			
	62030	Portage/Church St. Fort Frances	S6	04708	53838	335	4	×			
	62032	Cemetery, Coloni- zation Rd. W. Fort Frances	<b>A</b> 6	04697	53841	335	5	×	Ħ		
	63005	Hospital Archibald/Arthur Thunder Bay Dawson Ct./	AN6	03335	53608	190	24	×	×	x	x
	63022	Algoma St. N. Thunder Bay Hospital	A6	03372	53686	213	9	×			
		35 Algoma St. N. Thunder Bay	AN6	03356	53672	222	22	×	x	×	×
	63040	435 James St. S. Thunder Bay	A6	03302	53607	189	15	×	x		×
	63046	Can Car Bldg. Montreal St. Thunder Bay	S6	03298	53584	190	15	x			
	63052	Trnst Maint. Bldg. William Rd.	56	03230	33304	130	15	^			
		Thunder Bay	<b>A</b> 6	03729	53647	186	9	x			
NORTH- EAST	71020	Police Stn. Hillside Dr. N. Elliot Lake	A6	03729	51379	351	3	×			
	71022	Sault College, Queens St. Sault Ste. Marie	A6	07029	E1550	183	5	v	į.	v	
	71023	Hydro Pole Quirke Townsite, No. 1	A6	07029	51550 51517	388	4	×	x	x	x
	71042	Elliot Lake Bonney St. Pumphouse Sault Ste. Marie		07011	51517	190	1	×		×	×
	71049	Land Reg. Office. Queen St.			2000 1100 000 / 700 000 P	2		1215		1000	3350
	71053	Sault Ste. Marie Denison Townsite	A6	07047	51543	183	6	×	×	x	x
	71054	Elliot Lake Nordic Townsite	S6	03766	51504	409	2	x			
		Elliot Lake	A6	03788	51372	412	2	x			

Table 2 - Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	Pb(XRF)	ANALYSES METALS	SO <sub>4</sub> -2/NO <sub>3</sub> -
NORTH-	71061	Esker Lake Camp	A6	03735	51500	396	4	×			
EAST	71063	Stollery Lake/ Trailer Park OPP Station	A6	03735	51490	381	3	×			
	75010 77016	North Bay Ash Street Water Tank	A6	06197	51305	212	4	x		×	x
	77026	Sudbury 19 Lisgar St.	A6	04994	51486	290	3	×	x	×	x
	77029	Sudbury Post Office	A6	05006	51485	273	14	×	×	×	x
		Spruce/Barber St. Espanola	A6	04405	51235	212	6	×			
	77070	Nickel St. Pump House Copper Cliff	S6	04950	51462	282	5	×		×	×
	77076	Post Office Falconbridge	S6	05144	51577	290	5	×		×	×
NEMP	22902	Tyneside/ Chippewa Rd. Binbrooke West	<b>A</b> 6	05914	47746	213	5	x			
	22904	Walpole South PS Sandusk Rd., Nanticoke	A6	05794	47434	198	4	×			
	22951	Walpole Con.11/ Sandusk Rd.	••								
	22952	Hagersville 100 M SE Lakeshore Rd.	A6	05768	47548	221	2	×			
	22953	Peacock Prov. Park Waterford Conc. 2/ E. Quarterline	A6	05822	47388	185	2	×			
	22954	Dogs Nest E. Quart. Line/ Waterford Conc. 13	S3	05702	47396	197	2	×			
	22955	Villa Nova Hald-Norf Rd. 8/	A6	05654	47535	229	2	x			
	22956	Cayuga Conc. 2 Rainham Ctr. Hald-Norf Rd. 17/	A6	05943	47441	191	2	x			
	22957	H-N Rd. 32 Canfield S. Fisherville/	<b>A6</b>	06026	47527	183	2	x			
	22958	Indian Line Rd. Fisherville H-N Rd. 63/	A6	05886	47509	206	1	x			
	22959	5 Km E H-N Rd. 14 Canborough E. Hwy. 59	A6	06109	47607	181	2	x			
	22960	Big Creek Wildlife Reserve McKenzie Rd./	A6	05449	47165	173	2	×			
	22961	H-N Rd. NN Dufferin North Nanticoke Rd./Walpole	A6	05839	47600	215	2	x			
	22963	Con. 2 Nanticoke North NNW 6	\$3	05758	47412	190	3	×			
	22903	Stelco North	S3	05838	45323	198	2	x			

#### LEGEND

#### Survey Type:

A — Ambient survey for general air quality

S - Source-specific survey

N - Station does not conform to Canadian EPS siting criteria

6 - Ambient particulate levels measured every 6 days

3 - Ambient particulate levels measured every 3 days

1 - Ambient particulate levels measured daily

#### Analysis:

TSP:

Filter analyzed for total suspended particulate matter

Pb(XRF):

Filter analyzed for Lead by X-Ray Fluorescence method

Metals:

Filter analyzed for one or more of the following metals by atomic adsorption or induced coupled plasma methods: lead, iron, copper,

cadmium, chromium, zinc, vanadium, nickel, manganese.

SO4-2/NO3:

Filter analyzed for sulphate and nitrate ions.

Table 3 Criteria for Desirable Air Quality (per O. Reg. 872/74)

NAME OF CONTAMINANT	UNIT OF MEASUREMENT	AVERAGE AMOUNT OF CONCENTRATION	PERIOD OF TIME	APPROXIMATE EQUIV. AT 10°C AND 101.2 KPa PRESSURE
Carbon Monoxide	Parts of carbon	30	1 hour	36,200 ug/m <sup>3</sup>
	monoxide per one million parts of air by volume	13	8 hours	15,700 ug/m <sup>3</sup>
Nitrogen Dioxide	Parts of nitrogen	0.20	1 hour	400 ug/m <sup>3</sup>
	dioxide per one million parts of	0.10	24 hours	200 ug/m <sup>3</sup>
0	air by volume		- Technology	105 / 3
Ozone	Parts of ozone per one billion parts of air by volume	80	1 hour	165 ug/m <sup>3</sup>
Soiling	Coefficient of Haze per 1000 feet of air	1.0 0.5	24 hours 1 year	-
Sulphur Dioxide	Parts of sulphur dioxide per one million parts of air by volume	0.25 0.10 0.02	1 hour 24 hours 1 year	690 ug/m <sup>3</sup> 275 ug/m <sup>3</sup> 55 ug/m <sup>3</sup>
Cadmium	Micrograms of cadmium per cubic metre of air	2.0	24 hours	
Chromium	Micrograms of chromium per cubic metre of air	1.5	24 hours	
Copper	Micrograms of copper per cubic metre of air	50.0	24 hours	
Lead	Micrograms of lead per cubic metre of air	5.0	24 hours	
Manganese	Micrograms of manganese per cubic metre of air	50.0	24 hours	
Nickel	Micrograms of nickel per cubic metre of air	2.0	24 hours	
Total Suspended Particulate	Micrograms of total suspended particulate	120	24 hours	
Matter	matter per cubic metre of air	60 (geometric mean)	1 year	
Vanadium	Micrograms of vanadium per cubic metre of air	2.0	24 hours	

Table 4 Summary of Data: Sulphur Dioxide (all values in p.p.m.)

Ontario Criteria – 1 Hour Average: 0.25 p.p.m.; 24-Hour Average: 0.10 p.p.m.; 1 Year Average: 0.02 p.p.m.

INS – Indicates insufficient sample size to apply 1 Year average criterion

ARITHSTATION NO. OF PERCENTILES METIC- MAXIMUM A

STATION		NO. OF			PERCE	NTILES	3		ARITH- METIC-	MAX	IMUM			
NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR.	1-HR.	24-HR	.1-YEAR
12008	467 University Ave. W													
	Windsor	358	.000	.000	.003	.009	.026	.067	.012	.27	.05	1	NIL	NIL
12013	3665 Wyandotte St. E.													
	Windsor	320	.000	.000	.000	.006	.017	.049	.008	.34	.05	1	NIL	NIL
12016	College/South St.													
	Windsor	353	.000	.000	.000	.007	.021	.052	.009	.14	.06	NIL	NIL	NIL
12032	Morton Dock													UTILIZADE.
	Bedford/Ojibway													
	Windsor	354	.000	.000	.003	.008	.020	.048	.011	.19	.03	NIL	NIL	NIL
	12008 12013 12016	NUMBER LOCATION  12008 467 University Ave. W Windsor  12013 3665 Wyandotte St. E. Windsor  12016 College/South St. Windsor  12032 Morton Dock Bedford/Ojibway	NUMBER         LOCATION         DAYS           12008         467 University Ave. W Windsor         358           12013         3665 Wyandotte St. E. Windsor         320           12016         College/South St. Windsor         353           12032         Morton Dock Bedford/Ojibway	NUMBER         LOCATION         DAYS         10           12008         467 University Ave. W Windsor         358         .000           12013         3665 Wyandotte St. E. Windsor         320         .000           12016         College/South St. Windsor         353         .000           12032         Morton Dock Bedford/Ojibway	NUMBER         LOCATION         DAYS         10         30           12008         467 University Ave. W Windsor         358         .000         .000           12013         3665 Wyandotte St. E. Windsor         320         .000         .000           12016         College/South St. Windsor         353         .000         .000           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000	NUMBER         LOCATION         DAYS         10         30         50           12008         467 University Ave. W Windsor         358         .000         .000         .003           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000           12016         College/South St. Windsor         353         .000         .000         .000           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         353         .000         .000         .000	NUMBER         LOCATION         DAYS         10         30         50         70           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000         .006           12016         College/South St. Windsor         353         .000         .000         .000         .007           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000         .000         .000	NUMBER         LOCATION         DAYS         10         30         50         70         90           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000         .006         .017           12016         College/South St. Windsor         353         .000         .000         .000         .007         .021           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         <	NUMBER         LOCATION         DAYS         10         30         50         70         90         99           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000         .006         .017         .049           12016         College/South St. Windsor         353         .000         .000         .000         .007         .021         .052           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000 <td< td=""><td>STATION NUMBER         LOCATION         NO. OF DAYS         10         30         50         70         90         99         METIC-MEAN           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000         .006         .017         .049         .008           12016         College/South St. Windsor         353         .000         .000         .000         .007         .021         .052         .009           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000</td><td>STATION NUMBER         LOCATION         NO. OF DAYS         PERCENTILES         METIC-MAX 1-HR.           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000         .006         .017         .049         .008         .34           12016         College/South St. Windsor         353         .000         .000         .000         .007         .021         .052         .009         .14           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .</td><td>STATION NUMBER         LOCATION         NO. OF DAYS         10         30         50         70         90         99         METIC-MEAN         MAXIMUM 1-HR. 24-HR.           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27         .05           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .006         .017         .049         .008         .34         .05           12016         College/South St. Windsor         353         .000         .000         .007         .021         .052         .009         .14         .06           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000         .000         .007         .021         .052         .009         .14         .06</td><td>STATION NUMBER         LOCATION         NO. OF DAYS         10         30         50         70         90         99         METIC-MEAN         MAXIMUM 1-HR. 24-HR. 1-HR.         ABO MEAN           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27         .05         1           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .006         .017         .049         .008         .34         .05         1           12016         College/South St. Windsor         353         .000         .000         .007         .021         .052         .009         .14         .06         NIL           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000         .000         .000         .001         .001         .002         .009         .001         .009         .001         .000</td><td>STATION NUMBER         LOCATION         NO. OF DAYS         PERCENTILES         METIC-MEAN         MAXIMUM 1-HR. 24-HR. 1-HR. 24-HR.         ABOVE CRIMENT           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27         .05         1         NIL           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .006         .017         .049         .008         .34         .05         1         NIL           12016         College/South St. Windsor         353         .000         .000         .007         .021         .052         .009         .14         .06         NIL         NIL           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000         .000         .007         .021         .052         .009         .14         .06         NIL         NIL</td></td<>	STATION NUMBER         LOCATION         NO. OF DAYS         10         30         50         70         90         99         METIC-MEAN           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000         .006         .017         .049         .008           12016         College/South St. Windsor         353         .000         .000         .000         .007         .021         .052         .009           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000	STATION NUMBER         LOCATION         NO. OF DAYS         PERCENTILES         METIC-MAX 1-HR.           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .000         .006         .017         .049         .008         .34           12016         College/South St. Windsor         353         .000         .000         .000         .007         .021         .052         .009         .14           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .	STATION NUMBER         LOCATION         NO. OF DAYS         10         30         50         70         90         99         METIC-MEAN         MAXIMUM 1-HR. 24-HR.           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27         .05           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .006         .017         .049         .008         .34         .05           12016         College/South St. Windsor         353         .000         .000         .007         .021         .052         .009         .14         .06           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000         .000         .007         .021         .052         .009         .14         .06	STATION NUMBER         LOCATION         NO. OF DAYS         10         30         50         70         90         99         METIC-MEAN         MAXIMUM 1-HR. 24-HR. 1-HR.         ABO MEAN           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27         .05         1           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .006         .017         .049         .008         .34         .05         1           12016         College/South St. Windsor         353         .000         .000         .007         .021         .052         .009         .14         .06         NIL           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000         .000         .000         .001         .001         .002         .009         .001         .009         .001         .000	STATION NUMBER         LOCATION         NO. OF DAYS         PERCENTILES         METIC-MEAN         MAXIMUM 1-HR. 24-HR. 1-HR. 24-HR.         ABOVE CRIMENT           12008         467 University Ave. W Windsor         358         .000         .000         .003         .009         .026         .067         .012         .27         .05         1         NIL           12013         3665 Wyandotte St. E. Windsor         320         .000         .000         .006         .017         .049         .008         .34         .05         1         NIL           12016         College/South St. Windsor         353         .000         .000         .007         .021         .052         .009         .14         .06         NIL         NIL           12032         Morton Dock Bedford/Ojibway         Bedford/Ojibway         .000         .000         .000         .007         .021         .052         .009         .14         .06         NIL         NIL

Table 4 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF	10	30	PERCE 50	NTILES	90	99	ARITH- METIC- MEAN		IMUM 24-HR.	ABO	OF TII VE CRI	ΓERIA
			DATS	10	30		70	30	33	MEAN	i-nn.	24-rin.	r-nn.	24-Hh	ITEA
SOUTH- WEST	14004	Hydro SS Concession 14/15													
WEST		Courtright	360	.000	.000	.000	.000	.007	.043	.003	.22	.03	NIL	NIL	NIL
	14016	Lambton GS	000	.000	.000	.000	.000	.007	.0.10	.000		.00			
		Hwy 40													
	2 7222	Courtright	343	.000	.000	.000	.000	.010	.057	.005	.16	.04	NIL	NIL	NIL
	14062	242 Indian Rd. South Sarnia	363	.000	.000	.000	.005	.021	.069	.009	.43	.05	3	NIL	NIL
	14064	Centennial Park	303	.000	.000	.000	.003	.021	.009	.009	.43	.03	3	INIL	INIL
		Front St./CN Tracks													
		Sarnia	363	.000	.000	.003	.008	.028	.118	.014	.24	.10	NIL	NIL	NIL
	14904	East Sombra P.S.	00	000	000	000	000	007	000	000	414			en.	
	15001	Wilkesport Western Fair Grounds	96	.000	.000	.000	.000	.007	.029	.003	.14	.04	NIL	NIL	INS
	13001	King/Rectory													
		London	355	.000	.000	.003	.007	.015	.031	.009	.08	.04	NIL	NIL	NIL
	18007	Concession Rd. 2, Lot A													
		Tiverton	341	.000	.000	.000	.000	.007	.022	.003	.09	.04	NIL	NIL	NIL
WEOT															
WEST CENTRAL	22071	Experimental Farm Simcoe	337	.000	.000	.000	.000	.009	.035	.004	.21	.04	NIL	NIL	NIL
JENTIAL	22086	Cheapside Rd.	337	.000	.000	.000	.000	.009	.035	.004	.21	.04	NIL	NIL	NIL
		3 Km S. of Hwy 3													
		Nanticoke	340	.000	.000	.000	.000	.009	.048	.005	.28	.05	3	NIL	NIL
15145	00004	100 M S. Hwy 59													
IEMP	22901	Long Point Prov. Park	304	.000	.000	.000	.003	.009	.043	.006	.20	.06	NIL	NIL	NIL
	22902	Tyneside/Chippewa Rd.		.000	.000	.000	.000	.000	.0 10	.000		.00	0.00	11116	IIIC
		Binbrooke West	336	.000	.000	.000	.003	.010	.046	.006	.30	.05	1	NIL	NIL
.===	12/2/2/20												e.t.		
VEST CENTRAL	26029	Edna/Frederick St. Kitchener	336	.000	.000	000	000	000	024	002	00	00	MIII	NIII	NIII
CNINAL	27037	North/Geneva St.	330	.000	.000	.000	.000	.008	.024	.003	.08	.02	NIL	NIL	NIL
		St. Catharines	358	.000	.000	.000	.004	.015	.044	.007	.14	.04	NIL	NIL	NIL
	27042	Niagara Falls Rd./													
		Ontario St.	217	000	000	000	000	000	440	0.40	4.07	00	050		-
	27046	Thorold Public Works	317	.000	.000	.008	.026	.082	.418	.040	1.37	.39	253	31	1
		200 M S. of Beaverdam Rd.													
		Thorold	305	.000	.000	.000	.003	.015	.070	.007	.53	.07	2	NIL	NIL
	27048	Niagara Public Works													
		Dominion Rd. Fort Erie	271	.000	.000	.003	.008	.018	045	.010	.12	.06	NIL	NIL	NIL
	27049	Murray/Buchanan Ave.	£ 1. 1.	.000	.000	.003	.000	.010	.043	.010	.12	.00	INIL	INIL	IVIL
		Niagara Falls	365	.000	.000	.000	.000	.009	.044	.004	.10	.06	NIL	NIL	NIL
	27051	Holy Trinity Church													
		Norton/Portage Chippawa	286	.000	.004	.013	.026	.067	.153	.029	20	10	0	2	1
	28025	Farquhar/Wyndham St.	200	.000	.004	.013	.020	.007	.153	.029	.28	.12	2	3	
		Guelph	312	.000	.000	.000	.000	.007	.021	.003	.16	.03	NIL	NIL	NIL
	29008	North Park	20230	1-202-200											
	20025	Hamilton Barton (Mantureth	354	.000	.000	.004	.010	.033	.073	.014	.12	.07	NIL	NIL	NIL
	29025	Barton/Wentworth Hamilton	365	.000	.000	.002	.008	.024	.060	.010	.14	.06	NIL	NIL	NIL
ENTRAL	31001	67 College St. 5th Fir													
		Toronto	161	.000	.000	.000	.006	.020	.055	.009	.21	.06	NIL	NIL	INS
	31086	15 Breadalbane Toronto	82	.001	004	000	.014	026	040	016	00	04	KIII	NIII	INIC
	31104	26 Breadalbane	02	.001	.004	.008	.014	.026	.049	.016	.09	.04	NIL	NIL	INS
		Toronto	194	.000	.000	.000	.006	.017	.054	.008	.10	.06	NIL	NIL	INS
	31105	Sherbourne/Wilton St.													
	04400	Toronto	363	.000	.000	.000	.001	.016	.054	.006	.25	.09	NIL	NIL	NIL
	31120	Junction Triangle Perth Ave.													
		Toronto	274	.000	.000	.000	.006	.014	.039	.007	.09	.04	NIL	NIL	NIL
	33003	Lawrence/Kennedy	and the second												
		Scarborough	359	.000	.000	.000	.005	.016	.055	.007	.15	.09	NIL	NIL	NIL
	33019	Met Branch													
		Scarborough Bluffs Scarborough	343	.000	.000	.000	.000	.007	.029	.003	10	05	NIII	NIII	NIII
		Coarborough	J-3	.000	.000	.000	.000	.007	.029	.003	.18	.05	NIL	NIL	NIL

Table 4 - Continued . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC- MEAN		MUM 24-HR.	ABO	OF TIL VE CRI 24-HR	TERIA
CENTRAL	34002	Science Centre										Tenne Charles			
		770 Don Mills Rd.	Testerior -	12/12/12	102-121721	0.500	1.SPC201ST	172016-Vanco	127181121	12701.00	(Carrier)	SHE	27.74	11070/04	50000
	34007	North York Bathurst/Wilson	331	.000	.000	.004	.008	.017	.045	.010	.22	.07	NIL	NIL	NIL
	34007	North York	352	.000	.000	.002	.008	.020	.052	.010	.44	.06	2	NIL	NIL
	35003	Elmcrest Rd.	002	.000	.000	.002	.000	.OLO	.002	.010	*******	.00			
		Etobicoke	278	.000	.000	.000	.004	.013	.039	.006	.20	.04	NIL	NIL	NIL
	35005	Queensway Hospital Etobicoke	216	.000	.000	.000	006	.015	020	000	20	.04	NIL	NIL	NIL
	35033	Evans/Arnold Ave.	316	.000	.000	.000	.006	.015	.039	.008	.20	.04	NIL	MIL	INIL
	T. J. T. T. T. T.	Etobicoke	313	.000	.000	.000	.002	.010	.040	.005	.10	.05	NIL	NIL	NIL
	35050	MOE Lab													
		Resources Rd. Etobicoke	347	.000	.000	.005	.009	.020	.058	.012	.17	.06	NIL	NIL	NIL
	44008	Hwy 2/	347	.000	.000	.003	.003	.020	.030	.012	. 3 /	.00	INIC	INIL	14114
		North Shore Blvd. E.													
		Burlington	325	.000	.000	.000	.005	.012	.036	.007	.07	.04	NIL	NIL	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	353	.000	.000	.000	.000	.011	.048	.005	.23	.06	NIL	NIL	NIL
	45025	Ritson Rd./Olive Ave.	000	.000	.000	.000	.000	.011	.040	.003	.20	.00	MIL	IVIC	1414
		Oshawa	332	.000	.000	.000	.000	.009	.036	.004	.16	.06	NIL	NIL	NIL
	46100	Public School													
		Green Glade Rd. Mississauga	358	.000	.000	.000	.003	.011	.039	.006	.10	.04	NIL	NIL	NIL
	46110	Queensway West/	000	.000	.000	.000	.000	.011	.000	.000		.04			
		Hurontario St.	C#12.040	Tananan an	manaman	namen an		113403273407			107.00		11.0201	nevesi	****
	48002	Mississauga MTC Yard #9	318	.000	.000	.000	.003	.010	.038	.006	.49	.08	3	NIL	NIL
	48002	Hwy 47													
		Stouffville	320	.000	.000	.000	.000	.007	.027	.003	.09	.04	NIL	NIL	NIL
	59006	City Hall													
		500 George St. Peterborough	304	.000	.000	.000	.000	007	.029	.003	.06	.04	NIL	NIL	NIL
		reterborough	304	.000	.000	.000	.000	.007	.029	.003	.00	.04	INIL	IVIL	INIL
SOUTH-	51001	McDonald Garden													
EAST		Rideau/Wurtemburg St.	200	000	000	000	000	040	044	005	20	00	NIL	NIL	KIII
	51038	Ottawa General Hospital	360	.000	.000	.000	.000	.013	.044	.005	.22	.06	INIL	NIL	NIL
		342 McGill													
	50000	Hawkesbury	290	.000	.000	.001	.011	.047	.217	.020	.60	.15	43	4	NIL
	52020	Churchill Park Napier St.													
		Kingston	282	.000	.000	.000	.000	.000	.008	.000	.11	.01	NIL	NIL	NIL
	56051	Memorial Park													
		York/Third St. Cornwall	363	.000	.000	.000	.007	022	.076	.010	.21	.05	NIL	NIL	NIL
		Comwaii	303	.000	.000	.000	.007	.022	.076	.010	.21	.03	MIL	IVIL	IVIL
NORTH-	61010	Lassie/Dickenson Rds.													
WEST		Balmertown	280	.000	.000	.000	.000	.016	.275	.013	.93	.14	83	6	NIL
	63022	Hospital 35 Algoma St. N.													
		Thunder Bay	332	.000	.000	.000	.000	.000	.009	.000	.04	.01	NIL	NIL	NIL
	63040	435 James St. S.	100000000.1	\$4000000000000000000000000000000000000	1/50/50/50/50/50/50/50/50/50/50/50/50/50/	1,000,000					N/N/EX 20				
		Thunder Bay	361	.000	.000	.000	.000	.000	.018	.001	.23	.02	NIL	NIL	NIL
NORTH-	71001	29 Hillcrest Ave.													
EAST	,	Wawa	75	.000	.000	.000	.000	.001	.216	.008	.84	.08	14	NIL	INS
g.	71049	Land Reg. Office													
		Queen St. Sault Ste. Marie	296	.000	.000	.000	.000	.007	.022	.003	.07	.03	NIL	NIL	NIL
	71057	Michipicoten Ave., Lot 38	230	.000	.000	.000	.000	.007	.022	.000	.07	.00	INIL	MIL	1412
	TO THE COLOR	Town of Mission	291	.000	.000	.000	.000	.002	.218	.008	1.45	.29	58	2	NIL
	71058	Sir James Dunn Public School													
		Wawa	302	.000	.000	.000	.000	.018	.132	.008	.90	.10	25	NIL	NIL
	71059	Carl M. Beck	xrvālītā		2020 (F. 1887)		10004V75		autoristic)		1100000	and Se		1-0.00X <del>100</del> 0	0.047/0=0
		Public School	050	000	000	000	000	000	150	000	1.00		20	_	NIII
	75010	Wawa OPP Station	258	.000	.000	.000	.000	.002	.150	.006	1.20	.17	30	2	NIL
		North Bay	365	.000	.000	.000	.000	.002	.017	.002	.12	.02	NIL	NIL	NIL
	77001	Penage													
		Sudbury Airshed	249	.000	.000	.000	.000	.000	.060	.003	.44	.10	6	NIL	NIL

Table 4 - Continued . . .

	STATION		NO. OF			PERCE	NTII FS			ARITH- METIC-	MAX	MUM		OF TI	
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN					1-YEAR
NORTH-	77009	Burwash													
EAST		Sudbury Airshed	336	.000	.000	.000	.000	.008	.079	.005	.27	.05	1	NIL	NIL
	77010	Callum													
		Sudbury Airshed	344	.000	.000	.000	.000	.007	.076	.004	.39	.07	2	NIL	NIL
	77012	Skead													
		Sudbury Airshed	362	.000	.000	.000	.000	.017	.216	.011	.91	.19	64	4	NIL
	77013	Hanmer													
		Sudbury Airshed	345	.000	.000	.000	.000	.009	.105	.006	.38	.08	9	NIL	NIL
	77014	Rayside													
		Sudbury Airshed	362	.000	.000	.000	.000	.006	.056	.004	.67	.08	5	NIL	NIL
	77016	Ash Street Water Tank													
		Sudbury	358	.000	.000	.000	.004	.019	.128	.010	.44	.09	13	NIL	NIL
	77018	St. Charles													
		Sudbury Airshed	357	.000	.000	.000	.000	.005	.034	.003	.20	.03	NIL	NIL	NIL
	77023	Happy Valley													
		Falconbridge	355	.000	.000	.000	.000	.026	.380	.019	1.39	.32	166	13	NIL
	77028	Government/Edward St.													
		Coniston	360	.000	.000	.000	.006	.018	.123	.011	.77	.09	16	NIL	NIL
	77065	Falconbridge Rd.													
		Garson													
		Sudbury District	340	.000	.000	.000	.000	.015	.120	.008	.76	.11	16	1	NIL
	77066	Temagami													
		Sudbury Airshed	279	.000	.000	.000	.000	.008	.061	.004	.18	.05	NIL	NIL	NIL
	77067	Chiniguchi													
		Sudbury Airshed	107	.000	.000	.000	.000	.008	.061	.005	.23	.04	NIL	NIL	INS
	77075	Kennedy St.													
		New Sudbury	346	.000	.000	.000	.005	.019	.115	.010	.56	.09	16	NIL	NIL
	77092	Laurentian Hospital													
		41 Ramsey Lake Rd.													
		Sudbury	358	.000	.000	.000	.000	.007	.100	.005	.74	.13	17	NIL	NIL
	77096	Long Lake Rd.													
		Villa Loyola													
		Sudbury	359	.000	.000	.000	.000	.011	.111	.007	.57	.09	20	NIL	NIL

Table 5 Summary of Data: Carbon Monoxide (all values in p.p.m.)

Ontario Criteria - 1 Hour Average: 30 p.p.m.; 8-Hour Average: 13 p.p.m.

	STATION		NO. OF		1	PERCE	NTILES			ARITH- METIC-	MAX	IMUM		TIMES
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	8-HR.	1-HR.	8-HR.
SOUTH- WEST	12008	467 University Ave. W. Windsor	360	0.0	0.0	0.4	0.9	1.8	3.9	1.1	19	10	NIL	NIL
	14064	Centennial Park Front St./CN Tracks Sarnia	351	0.0	0.0	0.0	0.0	0.3	2.3	0.2	9	7	NIL	NIL
	15001	Western Fair Grounds King/Rectory	331	0.0	0.0	0.0	0.0	0.5	2.0	0.2	3	,	IVIL	MIL
		London	363	0.0	0.0	0.0	0.0	8.0	3.8	0.4	14	11	NIL	NIL
NEMP	22901	100 M S. Hwy 59 Long Point Prov. Park	331	0.0	0.0	0.0	0.0	0.4	0.9	0.2	2	1	NIL	NIL
	22902	Tyneside/ Chippewa Rd.												
		Binbrooke West	360	0.0	0.0	0.0	0.0	0.0	0.9	0.1	2	2	NIL	NIL
WEST CENTRAL	26029	Edna/Frederick St. Kitchener	342	0.0	0.1	0.5	0.8	1.7	4.1	1.1	19	9	NIL	NIL
	27037	North/Geneva St. St. Catharines	230	0.0	0.0	0.3	0.8	1.9	4.8	1.0	14	10	NIL	NIL
	29025	Barton/Wentworth Hamilton	359	0.0	0.0	0.4	1.0	2.1	5.2	1.2	15	11	NIL	NIL
CENTRAL	31001	67 College St., 5th Fir Toronto	159	0.0	0.2	0.6	1.0	1.8	3.8	1.2	8	5	NIL	NIL
	31049	Mission 381 Yonge St.	.00	0.0	0.2	0.0			0.0		3		7.4.180	
		Toronto	352	0.6	1.7	2.6	4.0	7.7	22.9	4.3	47	27	17	40

Table 5 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC- MEAN		IMUM 8-HR.		F TIMES CRITERIA 8-HR.
CENTRAL	31090	67 College St., 2nd Flr												
	SERVICE SERVICE	Toronto	142	3.3	4.2	4.8	5.6	7.4	11.2	5.7	22	15	NIL	1
	31104	26 Breadalbane St.				-			272	8 20	82	-	12.000	2000
	24405	Toronto	183	0.0	0.3	0.7	1.2	1.9	4.2	1.3	13	8	NIL	NIL
	31105	Sherbourne/Wilton Toronto	354	0.0	0.4	0.0	4.0	2.0				0	- KI 11	*****
		Toronto	354	0.0	0.4	8.0	1.3	2.0	4.4	1.4	12	9	NIL	NIL
	31120	Junction Triangle												
		Perth Ave.												
		Toronto	237	0.0	0.2	0.6	0.9	1.8	4.8	1.2	13	11	NIL	NIL
	33003	Lawrence/Kennedy												
		Scarborough	359	0.0	0.3	0.7	1.2	2.1	5.4	1.4	15	11	NIL	NIL
	34002	Science Centre												
		770 Don Mills Rd.												
		North York	338	0.0	0.4	0.9	1.6	2.9	5.7	1.7	12	11	NIL	NIL
	34007	Bathurst/Wilson												
		North York	365	0.0	0.4	0.8	1.4	2.7	5.5	1.6	19	10	NIL	NIL
	35003	Elmcrest Rd.	302	0.0	0.5	0.9	1.7	2.0	3.8	1.0	11	6	NIL	NIL.
		Etobicoke												
	35033	Evans/Arnold Ave.												
		Etobicoke	359	0.2	0.9	1.5	2.0	3.0	5.4	2.1	12	10	NIL	NIL.
	44015	Bronte Rd./												
		Woburn Cres.	Harmadown	(245096)	100000000		ONE VIEW							
		Oakville	322	0.3	1.2	1.6	2.2	3.3	5.6	2.3	10	7	NIL	NIL
	45025	Ritson Rd./Olive Ave.		2721			1 12	200	12/16	2.2			12020	27235
		Oshawa	363	0.2	0.8	1.4	1.9	2.8	5.5	2.0	15	10	NIL	NIL
	46110	Queensway West/												
		Hurontario St.	261	0.0	0.7	1.0	10	F 0	0.0	0.4	4.7		N. 111	KIII
		Mississauga	361	0.2	0.7	1.2	1.9	5.0	9.8	2.4	17	12	NIL	NIL
SOUTH	51001	McDonald Garden												
EAST		Rideau/Wurtemburg St.												
		Ottawa	365	0.0	0.3	0.6	0.9	1.8	3.5	1.3	9	5	NIL	NIL
	56051	Memorial Park		200	3.15			0.100			· ·		,,,,,	M.O.M.275
		York/Third St.												
	2	Cornwall	355	0.0	0.3	0.6	0.8	1.4	3.4	1.1	12	7	NIL	NIL
NORTH	77016	Ash Street												
EAST	11016	Ash Street Water Tank												
LASI		Sudbury	332	0.0	0.0	0.0	0.0	0.0	1.6	0.1	8	4	NIL	NIL
		Gudbury	332	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0	- 4	INIL	INIL

Table 6 Summary of Data: Total Hydrocarbons (all values in p.p.m.)
No Existing Criteria

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAX	MUMI
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR
SOUTH-	12008	467 University Ave. W.										
WEST		Windsor	277	1.71	1.91	20.4	22.1	26.2	39.1	2.18	8.4	4.3
	14064	Centennial Park										
		Front St./CN Tracks										
		Sarnia	350	1.49	1.68	1.90	2.13	2.74	4.58	2.09	8.8	4.3
	14903	Virgil LaSalle										
		Froomfield										
		Sarnia	85	1.67	1.80	1.99	2.22	2.84	4.37	2.20	7.2	3.4
	14904	East Sombra P.S.										
		Wilkesport	97	1.71	1.81	1.93	2.10	2.33	2.88	2.04	4.8	2.5
	15001	Western Fair Grounds										
		King/Rectory										
		London	355	1.88	2.06	2.20	2.37	2.76	4.79	2.36	11.0	4.3
CENTRAL	31001	67 College St. 5th Fir										
		Toronto	162	0.95	1.17	1.37	1.64	2.08	2.83	1.51	5.1	2.7
	31086	15 Breadalbane										
		Toronto	84	1.94	2.04	2.15	2.31	2.68	3.68	2.30	5.4	3.0
	31104	26 Breadalbane										
		Toronto	187	1.22	1.53	1.76	2.02	2.50	3.62	1.88	5.3	3.3

Table 6 - Continued . . .

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAX	IMUM
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR.
CENTRAL	33003	Lawrence/Kennedy										
		Scarborough	337	1.59	1.73	1.85	2.01	2.41	3.76	2.00	7.5	4.0
	34002	Science Centre										
		770 Don Mills Rd.										
		North York	352	1.08	1.29	1.47	1.69	2.39	4.30	1.68	6.6	3.9
	34007	Bathurst/Wilson										
		North York	357	1.51	1.69	1.83	2.01	2.43	3.73	1.97	6.8	4.5
	35003	Elmcrest Rd.										
		Etobicoke	294	1.70	1.85	1.99	2.18	2.70	4.63	2.19	12.1	3.5
	35033	Evans/Arnold Ave.										
		Etobicoke	344	1.22	1.45	1.65	1.89	2.45	3.97	1.83	8.3	4.9
	44015	Bronte Rd./Woburn Cres.								0.000		
		Oakville	330	1.61	1.99	2.23	2.56	3.20	4.46	1.86	18.6	4.4

Table 7 Summary of Data: Reactive Hydrocarbons (all values are in p.p.m.)
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC- MEAN	MAX 1-HR.	IMUM 24-HR.
SOUTH-	12008	467 University Ave. W.									-	
WEST	12000	Windsor	244	.16	.24	.31	.41	.59	1.10	.41	3.6	1.1
WEST	14903	Virgil LaSalle				.0.1	****	.00	1.10		3.0	1.1
		Froomfield										
		Sarnia	83	.05	.13	.18	.31	.86	2.39	.40	5.1	1.4
	14904	East Sombra P.S.										
		Wilkesport	96	.07	.15	.20	.30	.53	.77	.31	2.9	0.7
NEMP	22903	Cheapside Rd./										
		Walpole Conc. 5										
		Nanticoke	302	.17	.48	.65	.79	1.00	1.36	.67	3.6	1.3
	22904	Walpole South P.S.										
		Sandusk Rd.										
		Nanticoke	316	.24	.36	.45	.55	.74	1.00	.52	3.1	1.7
	22905	Nanticoke Rd./										
		Walpole Conc. 5										
		Nanticoke	323	.52	.62	.72	.81	.98	1.17	.78	1.9	1.2
WEST-	27037	North/Geneva St.										
CENTRAL		St. Catharines	205	.03	.17	.30	.47	.79	1.15	.41	2.0	1.1
	29008	North Park										
		Hamilton	329	.01	.08	.13	.17	.27	.47	.19	8.0	0.5
CENTRAL	31001	67 College St. 5th Fir										
		Toronto	89	.06	.14	.18	.25	.35	.68	.25	1.5	0.7
	31086	15 Breadalbane St.										
		Toronto	81	.23	.32	.40	.53	.78	1.44	.52	2.5	1.1

Table 8 Summary of Data: Methane (all values are in p.p.m.)
No Existing Criteria

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAX	IMUM
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR.
SOUTH- WEST	14903	Virgil LaSalle Froomfield										
	14904	Sarnia East Sombra P.S.	86	1.52	1.58	1.65	1.74	1.88	2.25	1.73	2.8	2.1
	14304	Wilkesport	95	1.51	1.57	1.63	1.69	1.85	2.19	1.71	3.2	2.0
NEMP	22903	Cheapside Rd./ Walpole Conc. 5 Nanticoke	313	1.29	1.36	1.42	1.48	1.59	1.82	1.48	2.5	1.8

Table 8 - Continued . . .

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAX	IMUM
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR.
NEMP	22904	Walpole South P.S. Sandusk Rd. Nanticoke	318	1.17	1.25	1.30	1.38	1.55	2.09	1.40	5.5	1.8
	22905	Nanticoke Rd./ Walpole Conc. 5										
		Nanticoke	311	1.23	1.38	1.46	1.55	1.69	21.9	1.53	3.9	2.1

Table 9 Summary of Data: Ozone (all values in p.p.m.)
Ontario Criteria – 1 Hour Average: 0.08 p.p.m.

SOUTH- 10001 College of Agric. Tech.  WEST Huron Park 336 .006 .015 .020 .026 .045 .084 .024 .130 .0  12008 467 University Ave. W.  Windsor 345 .000 .005 .013 .022 .045 .084 .019 .130 .0  13021 MOE Water Pump. Stn.  Middle Rd.  Merlin 326 .006 .014 .021 .027 .044 .079 .024 .106 .0  14064 Centennial Park  Front St./CN Tracks  Sarnia 365 .001 .012 .019 .026 .040 .076 .021 .169 .0  14118 PUC Water Pump. Stn.  Hwy 21  Petrolia 339 .006 .015 .021 .026 .042 .080 .023 .132 .0  14904 East Sombra P.S.  Wilkesport 99 .008 .017 .026 .038 .059 .094 .031 .151 .0  Western Fair Grounds  King/Rectory	55 106 71 71 58 67
12008	55 106 71 71 58 67
Windsor 345 .000 .005 .013 .022 .045 .084 .019 .130 .0  MOE Water Pump. Stn. Middle Rd. Merlin 326 .006 .014 .021 .027 .044 .079 .024 .106 .0  14064 Centennial Park Front St./CN Tracks Sarnia 365 .001 .012 .019 .026 .040 .076 .021 .169 .0  14118 PUC Water Pump. Stn. Hwy 21 Petrolia 339 .006 .015 .021 .026 .042 .080 .023 .132 .0  14904 East Sombra P.S. Wilkesport 99 .008 .017 .026 .038 .059 .094 .031 .151 .00	71 71 58 67
13021 MOE Water Pump. Stn.     Middle Rd.     Merlin	71 71 58 67
14064 Centennial Park Front St./CN Tracks Sarnia 365 .001 .012 .019 .026 .040 .076 .021 .169 .0  14118 PUC Water Pump. Stn. Hwy 21 Petrolia 339 .006 .015 .021 .026 .042 .080 .023 .132 .0  14904 East Sombra P.S. Wilkesport 99 .008 .017 .026 .038 .059 .094 .031 .151 .0  15001 Western Fair Grounds	58 67
Sarnia 365 .001 .012 .019 .026 .040 .076 .021 .169 .0  14118 PUC Water Pump. Stn. Hwy 21 Petrolia 339 .006 .015 .021 .026 .042 .080 .023 .132 .0  14904 East Sombra P.S. Wilkesport 99 .008 .017 .026 .038 .059 .094 .031 .151 .0  15001 Western Fair Grounds	
Hwy 21 Petrolia 339 .006 .015 .021 .026 .042 .080 .023 .132 .0  14904 East Sombra P.S. Wilkesport 99 .008 .017 .026 .038 .059 .094 .031 .151 .0  15001 Western Fair Grounds	79 85
Wilkesport 99 .008 .017 .026 .038 .059 .094 .031 .151 .0 15001 Western Fair Grounds	
	62 69
London 361 .000 .008 .016 .024 .042 .078 .020 .107 .0 18007 Concession Rd. 2 Lot A	74 66
Tiverton 334 .013 .022 .026 .031 .046 .086 .029 .162 .0	76 113
	85 159
22902 Tyneside/Chippewa Rd. Binbrooke West 345 .006 .016 .022 .028 .043 .075 .024 .103 .0	69 44
WEST- 22071 Experimental Farm CENTRAL Simcoe 336 .010 .019 .026 .033 .050 .088 .029 .111 .0	86 138
26029 Edna/Frederick St. Kitchener 343 .000 .008 .015 .022 .041 .077 .019 .101 .0	70 68
27037 North/Geneva St. St. Catharines 357 .002 .010 .017 .024 .041 .074 .020 .116 .0	72 48
29025 Barton/Wentworth Hamilton 360 .000 .006 .013 .020 .036 .063 .016 .089 .0	63 15
CENTRAL 31001 67 College St., 5th Fir Toronto 161 .001 .005 .011 .018 .030 .055 .014 .113 .0	46 9
31086 15 Breadalbane	34 2
31104 26 Breadalbane	54 50
31105 Sherbourne/Wilton St.	44 6
31120 Junction Triangle Perth Ave.	
33003 Lawrence/Kennedy	65 56
Scarborough 359 .000 .003 .009 .016 .032 .067 .013 .110 .0 34002 Science Centre 770 Don Mills Rd.	46 23
North York 339 .000 .003 .011 .020 .036 .076 .016 .099 .0 35003 Elmcrest Rd.	
Etobicoke 315 .000 .003 .010 .018 .034 .072 .014 .098 .0	51 61

Table 9 - Continued . . .

	STATION		NO 05			DEDOE				ARITH-			NO. OF TIMES
REGION	NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	70	90	99	METIC- MEAN		IMUM 24-HR.	ABOVE CRITERIA 1-HR.
CENTRAL	35033	Evans/Arnold Ave. Etobicoke	354	.000	.001	.004	.010	007	066	010	101	040	20
	44008	Hwy 2/ North Shore Blvd.	354	.000	.001	.004	.010	.027	.066	.010	.134	.049	26
	44015	Burlington Bronte Rd./Woburn Cres.	333	.000	.007	.014	.021	.034	.057	.016	.085	.043	1
	45025	Oakville Ritson Rd./Olive Ave.	359	.000	.006	.014	.021	.038	.073	.017	.103	.056	44
	46110	Oshawa Queensway W./ Hurontario St.	337	.001	.008		.022	.034	.069	.018	.146	.059	37
	47035	Mississauga M. of A. 509 Victoria St. E.	325	.000	.004	.011	.018	.031	.064	.014	.101	.051	21
	48002	Alliston MTC Yard #9 Hwy 47	126	.000	.009	.016	.024	.042	.074	.020	.099	.061	20
	49010	Stouffville Hwy 117/Point Lake Rd. Dorset	333 213	.005	.013	.018	.023	.032	.055	.019	.094	.052	7 13
SOUTH- EAST	51001	McDonald Gardens Rideau/Wurtemburg St. Ottawa	359	.000	.006	.013	020	.031	.054	.015	070	047	
	56051	Memorial Park York/Third St.	339	.000	.000	.013	.020	.031	.054	.015	.079	.047	NIL
		Cornwall	361	.005	.014	.021	.028	.040	.064	.023	.093	.060	13
NORTH- WEST	63040	435 James St. S. Thunder Bay	318	.000	.007	.014	.020	.026	.040	.014	.069	.040	NIL
NORTH- EAST	71049	Land Reg. Office Queen St.		222	000	000	240	005					
	71057	Sault Ste. Marie Michipicoten Ave. Lot 38	141	.000	.003	.009	.018	.035	.067	.014	.084	.067	8
	77016	Town of Mission Ash Street Water Tank	122	.000	.014	.024	.035	.050	.072	.026	.098	.058	20
		Sudbury	354	.005	.010	.013	.017	.027	.054	.016	.079	.064	NIL

Table 10 Summary of Data: Total Reduced Sulphur (all values in p.p.b.)
No Existing Criteria

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAX	IMUM
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR.
SOUTH- WEST	12032	Morton Dock Bedford/Ojibway										
	1.4000	Windsor	225	0.0	0.0	0.0	0.0	0.8	6.9	0.5	37	5
	14062	242 Indian Rd. S. Sarnia	356	0.0	0.0	0.0	0.0	0.0	4.0		0.4	5 <b>2</b> 0
	18007	Concession Rd. 2	356	0.0	0.0	0.0	0.0	0.9	4.0	0.4	21	4
	10007	Lot A, Tiverton	321	0.0	0.0	0.0	0.0	0.7	2.0	0.2	19	2
NEMP	22903	Cheapside Rd./ Walpole Conc. 5						81.2		2.1	1=:	3
	22904	Nanticoke Walpole South P.S. Sandusk Rd.	180	0.0	0.0	0.0	0.0	1.1	2.9	0.4	7	3
		Nanticoke	333	0.0	0.0	0.0	0.0	0.6	2.6	0.3	30	4
	22905	Nanticoke Rd./ Walpole Conc. 5										
		Nanticoke	329	0.0	0.0	0.0	0.0	0.8	2.0	0.3	7	2
	22907	WNW 03	Markey In									
		Nanticoke Village	281	0.0	0.0	0.0	0.0	1.1	4.8	0.5	36	9

Table 10 - Continued . . .

	STATION		NO. OF			DEDOE	NTU FO			ARITH-	****	
REGION	NUMBER	LOCATION	DAYS	10	30	50 50	NTILES 70	90	99	METIC- MEAN		IMUM 24-HR.
WEST	27051	Holy Trinity Church										
CENTRAL		Norton/Portage										
		Chippawa	284	0.0	0.0	0.2	5.6	35.5	152.3	12.2	435	110
	29008	North Park										
		Hamilton	263	0.0	0.0	0.0	0.8	4.6	16.1	1.6	47	14
	29025	Barton/Wentworth										
		Hamilton	351	0.0	0.0	0.0	0.3	2.9	14.3	1.3	83	13
CENTRAL	44015	Bronte Rd./										
		Woburn Cres.										
		Oakville	349	0.0	0.0	0.0	0.0	2.0	8.0	0.6	95	17
SOUTH-	56051	Memorial Park										
EAST		York/Third St.										
		Cornwall	360	0.0	0.0	0.0	0.7	4.6	21.6	1.8	141	20
	56068	435 Second St. W.										
		Cornwall	328	0.0	0.0	0.4	2.3	7.9	30.1	3.1	142	19
NORTH-	61026	56 King St.								16554100	(C 1)=0	(1)
WEST		Dryden	279	0.0	0.0	0.0	0.9	13.2	91.2	5.5	190	71
	62030	Portage/Church St.										
		Fort Frances	277	0.0	0.0	0.0	3.2	35.3	170.6	12.0	279	129
	62032	Cemetery										
		Colonization Rd. W.										
		Fort Frances	271	0.0	0.0	0.0	0.1	7.9	45.9	3.1	211	28
	63046	Can-Car Bldg.										
		Montreal St.										
		Thunder Bay	340	0.0	0.0	0.0	1.5	9.3	26.4	2.8	72	17
	63084	Recreation Centre										
		Red Rock	126	0.0	0.0	0.0	0.0	24.2	144.2	8.9	349	108
NORTH-	72063	Municipal Garage										
EAST		Smooth Rock Falls	365	0.0	0.0	0.0	0.0	5.9	33.5	2.1	116	38

Table 11 Summary of Data: Nitrogen Dioxide (all values in p.p.m.)
Ontario Criteria – 1 Hour Average: 0.20 p.p.m.; 24-Hour Average: 0.10 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC- MEAN		IMUM 24-HR.	ABOVE	F TIMES CRITERIA 24-HR.
SOUTH	12008	467 University Ave. W. Windsor	363	.009	.016	.023	.030	.045	.076	.030	.17	.09	NIL	NIL
	14064	Centennial Park Front St./CN Tracks	V 10											
	14904	Sarnia East Sombra P.S.	352	.000	.003	.010	.019	.035	.059	.018	.12	.06	NIL	NIL
	15001	Wilkesport Western Fair Grounds King/Rectory	85	.000	.000	.004	.008	.016	.036	.009	.07	.03	NIL	NIL
		London	359	.000	.004	.010	.017	.029	.049	.017	.11	.06	NIL	NIL
WEST- CENTRAL	22071	Experimental Farm	258	.000	.004	.008	.013	.020	.041	.014	.09	.05	NIL	NIL
	22086	Cheapside Rd. 3 Km S. of Hwy 3					10.10	.020		.014	.00	.00	ME	IVIL
	26029	Nanticoke Edna/Frederick St.	362	.000	.000	.004	.008	.016	.039	.010	.10	.05	NIL	NIL
		Kitchener	293	.003	.013	.020	.027	.039	.064	.026	.34	.11	9	1
	27037	North/Geneva St. St. Catharines	344	.003	.011	.016	.022	.032	.048	.022	.29	.08	4	NIL
	29008	North Park Hamilton	347	.001	010	001	007	044	070	007				
25	29025	Barton/Wentworth Hamilton	365		.013	.021	.027	.041	.078	.027	.24	.08	3	NIL
		namillon	365	.005	.015	.023	.031	.044	.069	.029	.15	.08	NIL	NIL
CENTRAL	31001	67 College St., 5th Fir Toronto	166	.005	.015	.023	.031	.044	.066	.029	.11	.06	NIL	NIL

Table 11 - Continued . . .

	STATION		NO. OF				NTILES		••	ARITH- METIC-		IMUM	ABOVE	F TIMES CRITERIA
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1:HK.	24-HR.	1-HR.	24-HR.
CENTRAL	31086	15 Breadalbane												
		Toronto	53	.006	.014	.021	.029	.045	.064	.028	.08	.05	NIL	NIL
	31104	26 Breadalbane								235	22		200	2220
		Toronto	194	.003	.012	.018	.025	.039	.070	.025	.13	.07	NIL	NIL
	31105	Sherbourne/Wilton St.			0.40	000	000	0.45	070	000	4.0	0.7	NO.	****
	04400	Toronto	365	.007	.016	.023	.030	.045	.070	.030	.12	.07	NIL	NIL
	31120	Junction Triangle												
		Perth Ave.	184	.004	.012	.018	.025	.038	.075	.025	.14	.08	NIL	NIL
	33003	Toronto Lawrence/Kennedy	104	.004	.012	.016	.025	.036	.075	.025	.14	.00	INIL	MIL
	33003	Scarborough	359	.002	.011	.018	.026	.038	.068	.025	.16	.09	NIL	NIL
	34002	Science Centre	359	.002	.011	.010	.020	.036	.000	.023	.10	.09	INIL	INIL
	34002	770 Don Mills Rd.												
		North York	360	.000	.002	.006	.011	.025	.047	.014	.09	.06	NIL	NIL
	34007	Bathurst/Wilson	000	.000	.002	.000	.0 1 1	.ozo	.0 11	.01.	.00	.00		
	04007	North York	301	.001	.010	.020	.032	.053	.085	.029	.14	.08	NIL	NIL
	35003	Elmcrest Rd.	20 m m					133530		100/00/00/1		37702	31/2/1875	9000000
	0.000.00.00	Etobicoke	314	.000	.008	.015	.023	.038	.068	.022	.12	.07	NIL	NIL
	35033	Evans/Arnold Ave.												
		Etobicoke	355	.014	.023	.029	.036	.050	.084	.036	.19	.09	NIL	NIL
	44008	Hwy 2/												
		North Shore Blvd. E.												
		Burlington	324	.001	.008	.013	.019	.029	.049	.019	.11	.06	NIL	NIL
	44015	Bronte Rd./Woburn Cres.										1967-17-00	1919/99	****
		Oakville	355	.000	.007	.014	.021	.033	.052	.020	.09	.04	NIL	NIL
	45025	Ritson Rd./Olive Ave.									2.2			
	121112	Oshawa	362	.000	.004	.012	.021	.035	.058	.019	.11	.06	NIL	NIL
	46110	Queensway West/												
		Hurontario St.	351	000	016	000	.029	.040	.064	.029	.10	.06	NIL	NIL
		Mississauga	351	.009	.016	.022	.029	.040	.064	.029	.10	.06	NIL	NIL
SOUTH-	51001	McDonald Garden												
EAST	51001	Rideau/Wurtemburg St.												
L/\o1		Ottawa	358	.000	.002	.008	.016	.030	.054	.016	.12	.06	NIL	NIL
	56051	Memorial Park												
		York/Third St.												
		Cornwall	361	.000	.000	.005	.009	.020	.045	.011	.11	.06	NIL	NIL
NODTU	77010	Ash Street												
NORTH- EAST	77016	Water Tank												
EMST		Sudbury	354	.000	.000	.000	.006	.015	.032	.007	.08	.03	NIL	NIL
		Suubury	334	.000	.000	.000	.000	.013	.032	.007	.00	.03	INIL	INIL

Table 12	2	Summary of Data: No Existing Criteria	Nitric Oxi	de (all	values	in p.p.	m.)					
REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC- MEAN	MAX 1-HR.	IMUM 24-HR.
SOUTH- WEST	12008	467 University Ave. W. Windsor Centennial Park	365	.000	.000	.002	.011	.038	.152	.017	.90	.29
	14904	Front St./CN Tracks Sarnia East Sombra P.S.	347	.000	.000	.003	.010	.028	.111	.014	.46	.11
	15001	Wilkesport Western Fair Grounds King/Rectory	87	.000	.000	.000	.000	.008	.020	.003	.04	.02
		London	357	.000	.000	.003	.011	.037	.182	.018	.71	.16
WEST- CENTRAL	22071	Experimental Farm Simcoe	249	.000	.000	.000	.000	.006	.019	.002	.06	.02
	22086	Cheapside Rd. 3 Km S. of Hwy 3 Nanticoke	354	.000	.000	.000	.000	.000	.021	.001	.13	.03
NEMP	22901	100 M S. of Hwy 59 Long Point Prov. Park	318	.000	.000	.000	.000	.004	.017	.002	.06	.02

Table 12 - Continued . . .

	STATION		NO OF			DEDOG	NTII 50			ARITH-		
REGION	NUMBER	LOCATION	NO. OF DAYS	10	30	50	NTILES 70	90	99	METIC- MEAN	33335	(IMUM 24-HR.
		2007.101								MEAN	TTIN.	24 Tin.
NEMP	22902	Tyneside/Chippewa Rd.										
		Nanticoke	269	.000	.000	.000	.006	.014	.040	.007	.15	.06
	22906	Sandusk Rd.										
		Btwn Walpole Conc 4/5						2002		0.0000000		02020
		Sandusk	266	.000	.000	.003	.006	.010	.033	.008	.13	.03
WEST-	26029	Edna/Frederick St.										
CENTRAL		Kitchener	242	.000	.008	.018	.046	.149	.419	.058	.95	.40
	27037	North/Geneva St.			.000	.0.0	.0 .0			.000	.00	.40
		St. Catharines	320	.000	.000	.000	.001	.038	.169	.014	.69	.24
	29008	North Park										
		Hamilton	341	.000	.005	.036	.076	.147	.280	.061	.67	.27
	29025	Barton/Wentworth										
		Hamilton	358	.000	.000	.005	.018	.059	.200	.024	.83	.29
CENTRAL	31001	67 Calloga St. Eth Fla										
CENTRAL	31001	67 College St. 5th Fir Toronto	164	.000	.000	.005	.016	.047	.140	.020	.37	4.5
	31086	15 Breadalbane	104	.000	.000	.003	.010	.047	.140	.020	.37	.15
	0.000	Toronto	53	.000	.000	.006	.012	.034	.130	.017	.30	.08
	31104	26 Breadalbane	-	.000	.000	.000	.012	.004	.100	.017	.50	.00
		Toronto	194	.000	.000	.007	.019	.052	.185	.023	.58	.24
	31105	Sherbourne/Wilton St.			(Table of the	(Na) (20)	1.000000.00		100 707		7	,. <del></del>
		Toronto	364	.000	.000	.011	.035	.094	.292	.037	.84	.39
	31120	Junction Triangle										
		Perth Ave.										
		Toronto	179	.000	.001	.007	.016	.059	.253	.028	.87	.41
	33003	Lawrence/Kennedy										
		Scarborough	358	.000	.000	.009	.030	.082	.277	.034	.87	.38
	34002	Science Centre										
		770 Don Mills Rd.	2.72	222.3	25275570	572020	75 975	077420-00	50000	FE 05540	1,334	100
		North York	343	.004	.014	.025	.043	.105	.315	.050	.68	.35
	34007	Bathurst/Wilson	200	000	000	000	100	000	405	000		40
	35003	North York Elmcrest Rd.	309	.000	.003	.026	.102	.228	.465	.082	.87	.46
	33003	Etobicoke	308	.000	.000	.000	.013	.067	.314	.026	.76	.30
	35033	Evans/Arnold Ave.	308	.000	.000	.000	.013	.007	.514	.026	.76	.30
	30000	Etobicoke	349	.000	.008	.035	.073	.173	.446	.070	.82	.43
	44008	Hwy 2/				1000	.0.0			.0.0	.02	
		North Shore Blvd.										
		Burlington	351	.001	.007	.016	.031	.084	.273	.038	.82	.31
	44015	Bronte Rd./Woburn Cres.										
		Oakville	354	.000	.000	.004	.011	.047	.180	.020	.60	.15
	45025	Ritson Rd./Olive Ave.										
		Oshawa	361	.000	.000	.000	.008	.042	.180	.017	.70	.28
	46110	Queensway West/										
		Hurontario St.	254	000	000	005	040	007	000			0.5
		Mississauga	351	.000	.000	.005	.016	.067	.260	.027	.74	.25
SOUTH-	51001	McDonald Garden										
EAST		Rideau/Wurtemburg St.										
		Ottawa	341	.000	.000	.000	.007	.033	.168	.015	.58	.13
	56051	Memorial Park							190000000000000000000000000000000000000			
		York/Third St.										
		Cornwall	356	.000	.000	.000	.000	.009	.115	.006	.45	.11
NORTH-	77016	Ash Street										
EAST	77016	Ash Street Water Tank										
LAGI		Sudbury	358	.000	000	.000	.000	000	000	000	40	0.7
		Sudbury	330	.000	.000	.000	.000	.009	.092	.006	.49	.07

Table 13 Summary of Data: Nitrogen Oxides (all values in p.p.m.)
No Existing Criteria

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAX	IMUM
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR.
SOUTH- WEST	12008	467 University Ave. W. Windsor	363	.011	.021	.032	.047	.083	.208	.048	1.07	.39
	14064	Centennial Park Front St./CN Tracks										17.5
		Sarnia	345	.000	.008	.018	.034	.065	.151	.032	.52	.14

Table 13 - Continued . . .

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAY	MUM
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR.	
SOUTH-	14904	East Sombra P.S.										
WEST	14004	Wilkesport	85	.000	.001	.006	.011	.025	.050	.013	.09	.05
	15001	Western Fair Grounds										
		King/Rectory London	357	.000	.008	.018	.033	.069	.216	.035	.77	.20
			CONTRACT.	12 -07 (2)								
WEST	22071	Experimental Farm	242	.000	.005	.010	.016	.027	.060	.017	.10	.05
CENTRAL	22086	Simcoe Cheapside Rd.	243	.000	.005	.010	.010	.021	.000	.017	.10	.03
		3 Km S. of Hwy 3										
		Nanticoke	353	.000	.000	.004	.008	.018	.056	.011	.18	.07
NEMP	22901	100 M S. of Hwy 59										
		Long Point Prov. Park	314	.000	.001	.005	.008	.016	.038	.010	.10	.05
	22902	Tyneside /Chippewa Rd.	225	000	004	.010	.016	.030	.076	.018	.19	.11
	22906	Binbrooke West Sandusk Rd.	335	.000	.004	.010	.010	.030	.076	.010	.19	×1.1
	22000	Btwn Walpole Con 4/5										
		Sandusk	233	.001	.004	.008	.013	.022	.058	.016	.29	.06
WEST	26029	Edna/Frederick St.										
CENTRAL		Kitchener	235	.012	.028	.045	.081	.190	.455	.085	1.01	.43
	27037	North/Geneva St. St. Catharines	312	.003	.011	.018	.029	.073	.211	.036	.74	.32
	29008	North Park	012	.000	.011	.010	.020	.0.0		.000	507/62207	
		Hamilton	336	.003	.028	.067	.112	.183	.322	.087	.73	.32
	29025	Barton/Wentworth Hamilton	358	.006	.021	.036	.055	.101	.255	.054	.95	.37
		Hammon	000	.000	.02 1	.000	.000		.200		.00	
CENTRAL	31001	67 College St 5th Fir	404	007	000	000	050	001	100	040	40	10
	31086	Toronto 15 Breadalbane St.	164	.007	.020	.033	.052	.091	.193	.049	.43	.19
	01000	Toronto	53	.010	.021	.031	.048	.079	.178	.045	.32	.12
	31104	26 Breadalbane		-1-2	1.21	222	2.72			0.40	0.7	
	31105	Toronto Sherbourne/Wilton St.	194	.006	.020	.032	.048	.089	.243	.049	.67	.31
	31103	Toronto	364	.009	.024	.043	.071	.134	.341	.067	.93	.46
	31120	Junction Triangle										
		Perth Ave. Toronto	178	.007	.019	.029	.046	.099	.317	.053	1.01	.49
	33003	Lawrence/Kennedy	.,,	.001	.0.0	.020	.0 .0	.000		1000		
		Scarborough	358	.003	.017	.036	.060	.119	.327	.058	1.00	.46
	34002	Science Centre 770 Don Mills Rd.										
		North York	343	.011	.026	.039	.059	.123	.343	.063	.71	.37
	34007	Bathurst/Wilson				0.50		200	540		0.4	50
	35003	North York Elmcrest Rd.	297	.003	.019	.056	.145	.268	.516	.110	.94	.52
	33003	Etobicoke	308	.002	.010	.021	.043	.105	.362	.049	.85	.37
	35033	Evans/Arnold Ave.					20.000		-			
	44008	Etobicoke Hwy 2/	346	.021	.045	.072	.110	.214	.514	.106	.96	.49
	44000	North Shore Blvd.										
		Burlington	324	.011	.022	.033	.050	.099	.305	.054	.89	.36
	44015	Bronte Rd./Woburn Cres. Oakville	355	.002	.013	.024	.039	.079	.215	.041	.63	.19
	45025	Ritson Rd./Olive Ave.	333	.002	.013	.024	.033	.073	.213	.041	.00	.13
		Oshawa	361	.000	.005	.015	.035	.078	.224	.036	.80	.34
	46110	Queensway West/ Hurontario St.										
		Mississauga	351	.010	.020	.033	.052	.107	.314	.055	.80	.30
001171	F420:	H-D										
SOUTH- EAST	51001	McDonald Garden Rideau/Wurtemburg St.										
LAGT		Ottawa	355	.000	.003	.012	.027	.065	.207	.030	.67	.19
	56051	Memorial Park										
		York/Third St. Cornwall	356	.000	.001	.005	.011	.032	.166	.018	.62	.17
			000	.000	.001	.000	A SECURITOR				7. A. M.	0.90.9709
NORTH-	77016	Ash Street										
EAST		Water Tank Sudbury	350	.000	.000	.002	.008	.027	.125	.013	.60	.10
		Judibury	555	.000	.000	.002	.000	.021	.120	.010	.00	

Table 14 Summary of Data: Soiling Index – 1 Hour (all values are in COH's/1,000 ft.)

Ontario Criteria – 24-Hour Average: 1.0 COH's/1,000 ft.; 1-Year Average: 0.5 COH's/1,000 ft.

INS – Indicates insufficient sample size to apply 1 year average criterion

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC- MEAN		MUM 24-HR.	ABOVE (	TIMES CRITERIA 1-YEAR
SOUTH	12008	467 University Ave. W.												
WEST		Windsor	356	.00	.16	.27	.44	.82	1.62	.41	4.5	1.7	6	NIL
	12016	College/South St.												
		Windsor	363	.03	.19	.29	.44	.80	1.72	.43	3.5	1.7	4	NIL
	14064	Centennial Park												
		Front St./CN Tracks	20.4	00	00		00			20				****
	15001	Sarnia Western Fair Grounds	364	.00	.03	.18	.32	.58	1.11	.28	3.1	1.1	1	NIL
	15001	King/Rectory												
		London	342	.00	.10	.21	.34	.58	1.28	.30	2.6	1.1	1	NIL
		London	542	.00	.10	.2.1	.54	.50	1.20	.50	2.0	1		IVIL
WEST-	22071	Experimental Farm												
CENTRAL	2207	Simcoe	334	.00	.00	.12	.22	.39	.73	.19	1.6	0.8	NIL	NIL
	27037	North/Geneva Sts.												
		St. Catharines	362	.00	.13	.22	.33	.61	1.27	.32	2.5	1.1	1	NIL
	27049	Murray/Buchanan Ave.												
		Niagara Falls	365	.00	.10	.17	.26	.44	.91	.25	2.1	1.0	NIL	NIL
	29008	North Park												
		Hamilton	353	.10	.29	.54	.90	1.43	2.17	.72	4.1	1.8	76	1
	29025	Barton/Wentworth												
		Hamilton	359	.13	.28	.42	.63	1.07	2.04	.58	4.3	1.8	24	1
CENTRAL	31001	67 College St., 5th Flr												
DENTINAL	31001	Toronto	168	.00	.17	.28	.45	.76	1.35	.40	2.5	1.2	1	INS
	31104	26 Breadalbane	100	.00	. 1. 7.	.20	.43	.70	1.55	.40	2.0	1.2		1140
	01104	Toronto	203	.10	.21	.33	.48	.85	1.58	.45	2.8	1.4	7	INS
	31105	Sherbourne/Wilton St.										. 6.7.6		
		Toronto	359	.13	.27	.43	.66	1.12	2.14	.60	4.2	1.9	28	1
	33003	Lawrence/Kennedy								4				
		Scarborough	348	.00	.17	.28	.43	.75	1.60	.40	3.3	1.7	8	NIL.
	34007	Bathurst/Wilson												
		North York	358	.00	.19	.36	.63	1.14	1.98	.54	3.6	1.8	35	1
	35003	Elmcrest Rd.												
		Etobicoke	216	.00	.07	.18	.30	.57	1.21	.28	2.3	1.2	1	INS
	35033	Evans/Arnold Ave.			(32/74/				namounan		2002			
	44045	Etobicoke	349	.00	.04	.19	.32	.67	1.51	.31	3.5	2.0	1	NIL
	44015	Bronte Rd./Woburn Cres.	245	00	10	0.4	40	75	1.40	0.0	0.0			A
	45025	Oakville Ritson Rd./Olive Ave.	345	.00	.13	.24	.40	.75	1.43	.36	2.3	1.3	4	NIL
	45025	Oshawa	363	.00	.10	.21	.34	.63	1.43	.31	3.7	1.5	3	NIL
		Jimana	555	.00	. 10	-6-1	.04	.00	1.40	.01	3.7	1.0	3	1411
SOUTH-	51001	McDonald Garden												
EAST		Rideau/Wurtemburg St.												
		Ottawa	364	.00	.00	.12	.20	.36	.83	.18	2.1	1.0	NIL	NIL
	56051	Memorial Park												
		York/Third St.												
		Cornwall	362	.00	.00	.00	.07	.23	.76	.10	2.3	1.0	NIL	NIL
NORTH-	77016	Ash Street												
EAST	77016	Water Tank												
LAST		Sudbury	359	.00	.00	.00	.13	.28	.84	.12	1.9	0.7	NIL	NIL
	77028	Government/Edward St.	339	.00	.00	.00	.13	.20	.04	.12	1.9	0.7	MIL	MIL
	, , 020	Coniston	357	.00	.00	.02	.16	.32	.86	.15	2.1	0.7	NIL	NIL
	77075	Kennedy St.	001	.00	.00	.52		.52	.50		2.1	0.7		
	A 50.000 TO	Sudbury	356	.00	.00	.05	.18	.37	1.08	.17	2.8	0.7	NIL	NIL

Table 15 Summary of Data: Soiling Index – 2 Hour (all values are in COH's/1,000 ft.)

Ontario Criteria – 24-Hour Average: 1.0 COH's/1,000 ft.; 1-Year Average: 0.5 COH's/1,000 ft.

INS – Indicates insufficient sample size to apply 1 year average criterion

	STATION		NO. OF			PERCE	NTILES	3		ARITH- METIC-	MAX	ІМИМ		TIMES
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	2-HR.	24-HR.	24-HR.	1-YEAR
SOUTH- WEST	15003	362 Dundas St. London	364	.00	.00	.14	.23	.44	.86	.21	.18	.07	NIL	NIL
WEST- CENTRAL	22086	Cheapside Rd. 3 Km S. of Hwy 3 Nanticoke	360	.00	.00	.05	.16	.34	.66	.15	1.3	0.5	NIL	NIL

Table 15 - Continued . . .

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC-	MAX	MUM		TIMES CRITERIA
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	2-HR.	24-HR.	24-HR.	1-YEAR
NEMP	22901	100 M S. Hwy 59						12						
NEMP	22901	Long Point Prov. Park	295	.00	.00	.05	.15	.27	.57	.13	1.1	0.4	NIL	NIL
	22902	Tyneside/Chippewa Rd.	200	.00	.00	.00		S			1806151	<b>O</b> ,,,		
		Binbrooke West	340	.00	.00	.11	.18	.33	.69	.16	1.3	0.6	NIL	NIL
WEST	26029	Edna/Frederick St.												
CENTRAL	20029	Kitchener	361	.00	.00	.15	.30	.61	1.33	.27	2.5	1.0	NIL	NIL
OL. TITTLE	27051	Holy Trinity Church	001	.00	.00	., .	.00		1.00					
		Norton/Portage												
		Chippewa	316	.00	.00	.16	.32	.57	1.03	.26	3.1	0.8	NIL	NIL
	28025	Farquhar/Wyndham St.	20200	742727	272	1912	1923281	122	22	32020	194 V - 30	120.02	02/02/2	40000
	00001	Guelph	338	.00	.00	.10	.18	.39	.79	.18	1.4	0.6	NIL	NIL
	29001	Hughson/Hunter Hamilton	269	.00	.06	.16	.32	.60	1.22	.28	2.6	1.2	1	NIL
	29009	Kenilworth	209	.00	.00	.10	.52	.00	1.22	.20	2.0	1.2	3.	IIIC
	23000	Hamilton	362	.00	.00	.13	.22	.48	.95	.22	1.8	0.9	NIL	NIL
	29011	Burlington/Leeds												
		Hamilton	335	.00	.08	.18	.35	.67	1.34	.31	3.3	1.3	1	NIL
	29012	Burlington/Wellington	000			20.2	00	40	00	0.0	4.0	0.0	Series	KIII
	20015	Hamilton Marrick St	360	.00	.01	.14	.23	.49	.99	.23	1.9	0.9	NIL	NIL
	29015	Merrick St. Hamilton	320	.00	.01	.14	.26	.55	1.15	.25	2.5	0.8	NIL	NIL
	29017	Chatham/Frid	020	.00	.0.	SAMETAG	.20	.00		.20	2.0	0.0		
		Hamilton	327	.00	.06	.17	.30	.61	1.20	.28	4.7	1.1	1	NIL
	29067	450 Hughson St. N.												
		Hamilton	318	.00	.00	.13	.24	.48	.89	.22	1.7	0.7	NIL	NIL
CENTRAL	21100	1												
CENTRAL	31120	Junction Triangle Perth Ave.												
		Toronto	290	.00	.05	.17	.34	.67	1.39	.30	2.8	1.7	4	NIL
	33019	Met Branch												
		Scarborough Bluffs												
		Scarborough	346	.00	.00	.06	.17	.39	.71	.16	1.4	0.5	NIL	NIL
	34002	Science Centre 770 Don Mills Rd.												
		North York	363	.00	.00	.11	.24	.55	1.15	.23	2.3	1.1	1	NIL
	35003	Elmcrest Rd.	300	.00	.00	29/9/35	164-38	.00	1.10		2.0	*****	•	
		Etobicoke	92	.00	.00	.17	.34	.74	1.58	.31	2.4	1.4	1	INS
	35005	Queensway Hospital												
	SCAS SIGNASANAN	Etobicoke	363	.00	.01	.16	.33	.61	1.23	.28	2.6	1.1	1	NIL
	35008	22 Thirty-Sixth St.	050	00	00	4.0	10		1.00	0.1	0.0	0.0	****	KILL
	35050	Etobicoke MOE Lab	359	.00	.00	.12	.19	.45	1.00	.21	2.2	0.9	NIL	NIL
	3 3030	Resources Rd.												
		Etobicoke	333	.00	.00	.14	.24	.49	1.00	.22	1.9	0.9	NIL	NIL
	44008	Hwy 2/												
		North Shore Blvd. E.												
	45004	Burlington	365	.00	.00	.13	.21	.48	1.03	.22	2.0	0.9	NIL	NIL
	45024	206 Eulalie St. Oshawa	340	.00	.04	.15	.28	.54	1.12	.26	2.6	1.0	NIL	NIL
	46025	Mississauga Public	040	.00	.04		.20	.04		.20	2.0	1.0		
		Library												
		Mississauga	356	.00	.14	.24	.50	.65	1.03	.24	1.9	0.9	NIL	NIL
	46033	Bramalea Fire Hall	222	2023	12012	1000	raisas	202	W 9035	1252	isins	8:18	601	2022
	46100	Bramalea Bublic Sabari	359	.00	.00	.14	.27	.56	1.15	.25	2.2	1.1	1	NIL
	46100	Public School Green Glade Rd.												
		Mississauga	355	.00	.00	.13	.22	.46	.97	.21	1.7	0.9	NIL	NIL
	46110	Queensway West/												
		Hurontario St.												
		Mississauga	342	.00	.06	.17	.34	.64	1.29	.30	2.6	1.3	3	NIL
	48002	MTC Yard #9												
		Hwy 47 Stouffville	356	.00	.00	.06	.15	.32	.73	.15	2.0	0.7	NIL	NIL
	59006	City Hall	330	.00	.00	.00	.15	.32	.13	.15	2.0	0.7	INIL	MIL
	00000	500 George St.												
		Peterborough	270	.00	.00	.14	.28	.54	1.17	.25	2.4	1.0	NIL	NIL
SOUTH-	52020	Churchill Park												
EAST		Napier St. Kingston	223	.00	.00	.09	.18	.36	.69	.16	1.5	0.4	NIL	NIL
		rangaton	220	.00	.50	.03	0	.50	.55	.10	1.5	0.4	1412	ME

Table 15 - Continued . . .

REGION	STATION	LOCATION	NO. OF		PERCE	NTILES	6		ARITH- METIC-	MAXIMUM		NO. OF TIMES ABOVE CRITERIA		
	NUMBER		DAYS	10	30	50	70	90	99	MEAN	1-HR.	24-HR.	1-HR.	1-YEAR
NORTH- WEST	63022	Hospital 35 Algoma St. N.												
	63040	Thunder Bay 435 James St. S.	350	.00	.00	.09	.17	.33	.72	.16	1.7	0.5	NIL	NIL
		Thunder Bay	296	.00	.00	.07	,17	.38	.78	.16	1.3	0.6	NIL	NIL

Table 16 Summary of Data: Total Suspended Particulate Matter (all values in micrograms per cubic meter)

Ontario Criteria – 24-Hour average:120 ug/m³; Annual geometric mean: 60 ug/m³ INS – Indicates insufficient sample size to apply annual criterion

REGION SOUTH-	STATION NUMBER	LOCATION PUC Bldg.	NO. OF		PERCENTILES				MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERIA		
			SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.	1-YR.
WEST		64 West St.												
		Goderich	57	22	32	48	58	82	143	154	52	45	2	NIL
	11001	35 Thomas St.												
		St. Marys	59	20	37	49	64	105	199	242	60	49	3	NIL
	12002	City Hall									2.2	6.750	0.75	9301307
		44 Windsor Ave.												
		Windsor	58	42	56	68	83	119	192	233	76	69	5	1
	12005	7730 Riverside Dr. W.												
		Windsor	59	28	36	45	59	79	110	128	50	45	1	NIL
	12008	467 University Ave. W.												
		Windsor	314	29	46	59	78	105	167	189	65	58	20	NIL
	12009	9725 Riverside Dr. E.												
		Little River	43	27	37	45	59	83	103	104	51	46	NIL	NIL
	12010	Tecumseh Sewage Stn.												
		Manning Rd.												
		Windsor	58	22	30	40	49	75	101	116	45	40	NIL	NIL
	12013	Filtration Plant												
		3665 Wyandotte St. E.												
		Windsor	56	40	53	59	78	113	150	174	70	65	3	1
	12014	University Met. Stn.												
		College/California St.												
		Windsor	54	46	61	74	100	126	169	220	81	74	7	1
	12015	Sewage Plant												
		Hwy 18/Prospect												
	to a trade as statistics	Windsor	55	61	70	84	105	129	157	166	91	87	9	1
	12016	College/South St.												
		Windsor	56	44	51	62	77	101	158	177	70	65	3	1
	12032	Morton Dock												
		Bedford/Ojibway	67	40	50	7.4	0.0	440	454	400	7.0	7.0		9
	12036	Windsor 1802 George St.	57	46	59	74	86	113	154	188	76	72	4	1
	12036	Windsor	54	37	47	54	63	86	111	131	F 0			
	12037	3225 California St.	34	31	47	54	63	00	111	131	58	55	1	NIL
	12007	Windsor	56	27	38	49	65	79	112	146	52	46	1	NIL
	12039	Dougall/E.C. Row W.	30	21	30	43	05	19	112	140	32	46	1	INIL
	12000	Windsor	59	44	56	70	83	99	130	131	71	66	2	1
	12052	Simone	- 55		50	70	00	33	130	131	6.1	00	2	
	12002	368 Texas Road												
		Amherstburg	21	53	61	70	82	99	144	144	76	72	2	INS
	12053	415 Front St.		00	0.	, 0	02	30	11.75	1.00	, 0	12	2	1113
	,2000	Amherstburg	36	27	42	51	74	106	183	188	64	54	3	INS
	13003	Post Office			0.00	0,1	100000	.00	.00	100		-		
	11 may 20 mg 1 mg 1	10 Center St.												
		Chatham	45	33	53	68	78	113	242	323	75	65	4	1
	13022	RR #3 NNW of House												
		Blenheim	26	30	48	64	83	137	317	356	84	67	5	INS
	13023	RR #1 Behind the Barn		2.8	920	45	100.00		35,000	Estable .	100 9	E56%		(V) (V)
		Blenheim	54	20	31	44	56	85	116	126	47	40	1	NIL
	13024	Jackson Farm												
		Blenheim	52	18	28	36	48	73	123	150	42	35	1	NIL
	13025	RR #2 Behind the Barn												
		Merlin	47	16	25	32	46	55	65	66	36	30	NIL	NIL

Table 16 - Continued . . .

														ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	S 90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRIT 24-HR.	ERIA 1-YR
	10.00		JAMI LLO	10						COITC.	III CAN	MEAN	24 1111.	
SOUTH- WEST	14001	General Hospital												
WEST		220 Minton St. Sarnia	58	25	35	44	51	81	114	121	49	44	1	NIL
	14016	Opposite Lambton GS	30	25	33		31	01		121	43			1412
	1000-000-00	Hwy 40												
		Courtright	128	14	25	34	48	68	100	118	38	32	NIL	NIL
	14030	RR #1												
		West of the House	6.7	17	20	44		70	144	171	47	39	2	NIL
	14031	Corunna RR #1	57	17	29	41	55	78	144	171	47	39	2	NIL
	14001	West Side of Barn												
		Mooretown	58	23	32	42	53	86	115	134	49	43	1	NIL
	14054	Sarnia Yacht Club												
		Port Edward	70.00		-	100000		202		222	120	12.0	20	
	14057	Sarnia	57	23	36	58	80	100	168	239	61	51	3	NIL
	14057	Briarwood Rec. Centre Hwy 7												
		Sarnia	24	23	29	38	51	80	110	119	46	40	NIL	INS
	14059	St. Clair Blvd./												
		Hwy 40												
	44004	Corunna	56	27	37	47	62	72	112	140	51	47	1	NIL
	14064	Centennial Park Front St./CN Tracks												
		Sarnia	57	35	55	63	76	101	161	223	68	62	3	1
	14151	St. Clair River	0.50			3.55	7.50	1.70	A107811	75.70. <del>5</del> 1		25.50		
		David/Front St.												
		Sarnia	57	26	38	54	89	116	163	174	65	55	4	NIL
	14904	East Sombra P.S.	4.0										21	
	15001	Wilkesport Western Fair Grounds	13	40	55	57	73	101	130	134	67	62	1	INS
	15001	King/Rectory												
		London	56	24	43	62	79	127	198	209	70	58	8	NIL
	15003	362 Dundas St.												
		London	53	25	34	44	54	79	102	120	47	42	NIL	NIL
	15006	BP Station 1009 Talbot St.												
		St. Thomas	52	30	46	55	72	137	249	285	74	61	9	1
	15007	Fern Ford	-	-			10.00		2.0	200		0.	J	
		1012 Talbot St.												
	17000	St. Thomas	55	35	48	58	74	96	171	174	65	59	2	NIL
	17006	St. Anthony's SS Hwy 2												
		Beachville	57	43	63	77	110	176	299	309	99	84	13	1
	17019	1401 Parkinson E.			-	******			200	000	-			
		Woodstock	80	19	31	41	51	66	101	110	43	37	NIL	NIL
WEST	22224	C-Wint											Carl	
WEST- CENTRAL	22031	Selkirk	60	19	28	36	51	69	109	153	43	37	1	NIL
OLIVINAL	22056	Port Dover	55	21	30	43	51	75	125	138	46	40	1	NIL
	22069	Sandusk	50	18	29	38	48	85	210	229	49	40	3	NIL
	22071	Experimental Farm												
	2222	Simcoe	55	15	27	36	44	62	78	90	37	32	NIL	NIL
	22086	Cheapside Rd. 3 Km S. of Hwy 3												
		Nanticoke	57	21	28	39	48	67	120	170	43	37	1	NIL
	22087	Jarvis Community Centre				00	-10	0,	120	110	40	37		INIL
		James St.												
		Jarvis	59	22	32	43	60	85	166	208	52	43	4	NIL
	26029	Edna/Frederick St.	E 4	24	- 4	64	0.4	100	007	000	70		_	12
	26035	Kitchener Uniroyal	54	34	54	61	81	109	227	263	72	64	5	1
	20000	149 Strange St.												
		Kitchener	58	34	41	52	69	85	141	147	58	54	2	NIL
	27008	71 King St.	10700E	3101										
	07000	St. Catharines	56	27	42	60	71	109	136	141	63	55	5	NIL
	27009	Norton/Portage Chippawa	55	48	68	101	129	203	284	302	111	o.e	10	
	27014	Stanley/Chippawa Pkwy	33	40	00	101	129	203	204	302	111	96	19	1
		,,pp			100						11 (40)	0.00000		-
		Chippawa	48	29	47	62	87	135	207	221	76	65	7	1
	27030	Chippawa Killaly E./James Port Colborne	48 58	29	47 37	62 56	87 65	135 91	118	121	76 55	65	7	1 NIL

Table 16 - Continued . . .

														ABOVE
DECION	STATION	100171011	NO. OF			PERCE				MAX.	ARITH.	GEOM.		ERIA
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.	1-YR.
WEST-	27037	North/Geneva St.	12.2			-			1.122.21	V-21-01	1000	7000		
CENTRAL	27045	St. Catharines 337 Alberta at Devon St.	58	30	43	55	73	109	178	181	66	57	6	NIL
	21045	Welland	58	31	49	57	74	94	154	155	63	58	3	NIL
	27047	Davis/Frazer								100	00	00		
		Port Colborne	58	26	43	66	81	107	182	214	67	57	4	NIL
	27048	Niagara Public Works Dominion Road												
		Fort Erie	57	21	31	32	54	74	88	92	44	39	NIL	NIL
	27049	Murray/Buchanan Ave.	0,		0.	02	•	N.S.	00	32	566	00		
		Niagara Falls	58	37	51	59	70	103	161	193	66	60	5	NIL
	27050	4057 Victoria Ave.				•								
	28024	Niagara Falls 95 Inkerman St.	50	53	71	81	104	139	252	361	95	86	13	1
	20024	Guelph	54	29	36	49	61	100	178	191	58	50	3	NIL
	28025	Farquhar/Wyndham St.	270.00		-	130					••	•		
		Guelph	56	27	39	46	58	75	104	105	51	47	NIL	NIL
	28026	448 College W.	16	00	45	00	105	170	000	004	00	14.4	-	1110
	28027	Guelph Hanlon Expwy/Speed	16	33	45	68	105	179	220	221	89	71	5	INS
	2002.	River												
		Guelph	63	30	44	67	83	152	343	395	82	66	10	1
	29001	Hughson/Hunter	50		47		00			000	70		•	
	29007	Hamilton City Hall	58	31	47	56	86	126	181	222	72	62	9	1
	20001	Hamilton	55	27	41	52	72	111	223	229	67	57	5	NIL
	29008	North Park												
	2222	Hamilton	327	34	53	73	102	158	203	302	86	72	64	1
	29009	Kenilworth Hamilton	68	33	55	62	76	103	172	183	69	63	5	1
	29011	Burlington/Leeds	00	33	33	02	10	103	112	103	09	03	3	
		Hamilton	69	45	76	96	121	210	346	377	111	96	21	1
	29012	Burlington/Wellington	222	122	22	1202	12020	272	001066062	202000	5276	V-11-0270	No.	
	29017	Hamilton Chatham/Frid	68	32	53	65	76	92	199	225	68	62	3	1
	29017	Hamilton	57	35	59	77	100	131	229	340	85	75	7	1
	29025	Barton/Wentworth											-	
		Hamilton	317	38	57	73	93	134	260	330	82	72	46	1
	29067	450 Hughson St. N. Hamilton	57	31	47		71	0.7	440	150	61	50	4	NIL
	29085	Upper Wellington/	5/	31	47	58	/ 1	87	142	158	01	56	4	NIL
		Inverness												
	212101212	Hamilton	55	30	43	56	74	102	172	195	63	55	3	NIL
	29087	405 Cumberland Ave.	58	37	50	65	76	114	185	203	72	65	5	1
	29089	Hamilton Barton/Nash	56	31	50	00	10	114	100	203	12	65	5	100
		Hamilton	57	33	45	61	77	88	124	144	63	58	1	NIL
	29090	Westdale Library		7/44/04/7		12020			D-DOLLAND.	120-2-120	12/21	17247247	200	#2#WS7
		Hamilton	58	34	50	59	74	92	181	199	66	59	4	NIL
CENTRAL	31001	67 College St. 5th Fir.												
		Toronto	167	37	47	59	76	130	183	252	72	64	25	INS
	31018	35 Bathurst St.	72 82	533	25	1212	0.002	10:552	(20.5	Statul	300	-	22	
	31026	Toronto 360 Christie St.	349	41	65	86	114	155	216	239	94	83	86	1
	31026	Toronto	89	33	42	53	67	91	112	125	57	53	1	INS
	31058	Mosley/Leslie St.												
		Toronto	345	43	61	76	99	151	246	349	89	79	68	1
	31064	17 Berkeshire Ave. Toronto	351	31	48	65	83	123	186	232	71	63	37	1
	31065	633 Eastern Ave.	551	01	40	00	00	123	100	232	5.3	00	31	
		Toronto	346	36	57	72	94	140	238	298	82	72	51	1
	31079	Fire Hall												
		1285 Dufferin St. Toronto	340	34	49	60	78	109	155	194	66	60	21	NIL
	31082	Works Dept.	340	34	49	00	10	109	100	134	00	00	21	MIL
		138 Hamilton Ave.												
		Toronto	349	33	52	68	91	139	207	275	79	67	53	1
	31084	Maydwell Mfg. 65 Saulter St.												
		Toronto	352	37	54	68	88	123	203	283	76	68	39	1
		, 5,, 5,, 1, 5	302	٠.	-	00	00	. 20	200	200	, 0	00	55	

Table 16 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES	90	99	MAX.	ARITH. MEAN	GEOM. MEAN		ABOVE TERIA 1-YR.
										55,055			= 1 1111	
CENTRAL	31085	Tecumseth/Niagara St. Toronto	220	20	F.C.	7.4	00	100	100	007	70	70	50	
	31086	15 Breadalbane	338	36	56	74	92	133	190	237	79	70	50	1
	01000	Toronto	103	43	57	70	93	138	233	278	84	75	16	INS
	31088	880 Bay St.		0.70	. 25.50	200						, ,		0
		Toronto	252	31	43	55	72	106	153	161	62	55	10	NIL
	31099	Pal Electric												
		Pape Ave. Toronto	140	36	e e	90		150	225	040	0.0	0.1	0.7	INIC
	31104	26 Breadalbane	140	36	65	80	114	156	225	248	93	81	37	INS
	0	Toronto	232	27	43	56	80	124	168	196	67	58	26	INS
	31105	Sherbourne/Wilton St.										170750		55,715,6765
	ar wat agen.	Toronto	117	54	85	113	151	246	404	428	131	113	53	1
	31120	Junction Triangle												
		Perth Ave.	00	25	40	00	70		400	4.40				
	33003	Toronto Lawrence/Kennedy	80	35	46	63	76	94	126	140	63	58	2	NIL
	33003	Scarborough	111	33	45	59	76	97	196	281	66	59	5	NIL
	33019	Met. Branch,										-		
		Scarborough Buffs,												
		Scarborough	108	25	34	44	57	81	108	148	49	44	1	NIL
	34002	Science Centre												
		770 Don Mills Rd. North York	117	25	35	45	E 4	70	107	115	40	44	NIII	NIII
	34007	Bathurst/Wilson	117	25	35	45	54	79	107	115	49	44	NIL	NIL
	3.33.	North York	34	42	51	80	111	146	214	216	89	77	9	INS
	35003	Elmcrest Rd.												
		Etobicoke	102	31	43	54	72	98	130	135	60	54	4	NIL
	35005	Queensway Hospital										-	100	
	35033	Etobicoke Evans/Arnold Ave.	112	30	44	55	73	92	122	131	60	55	2	NIL
	33033	Etobicoke	121	52	73	93	116	146	193	217	98	91	34	1
	35037	3050 Lakeshore Blvd. W.		OL.	7.0	30	110	140	133	211	30	31	34	
		Etobicoke	332	36	54	69	85	118	163	189	74	68	27	1
	35050	MOE Lab												
		Resources Rd.	77.22.2	12720	1000	55.707	250	75.00	27.0000	100.00				
	35051	Etobicoke Rediction Lab	120	32	40	51	65	83	138	152	55	51	2	NIL
	35051	Radiation Lab Resources Rd.												
		Etobicoke	339	26	39	51	65	89	138	165	55	50	6	NIL
	44008	Hwy 2/								, 00	•	00		
		North Shore Blvd.												
		Burlington	117	22	34	43	64	87	154	164	52	45	3	NIL
	44015	Bronte Rd./Woburn Cres.	***	20		40		0.0		007			-	
	45001	Oakville Pickering Fire Hall	112	30	40	48	64	92	120	207	56	50	2	NIL
	40001	Pickering	327	23	37	52	70	104	192	220	59	50	19	NIL
	45003	McDonald PS			385.0	· = ==	3.40							
		Pickering	325	23	35	48	63	86	148	189	53	47	9	NIL
	45004	O'Sullivan,												
		Station Rd.	140	10	20	25		60	117	1.40	40	0.5		INIC
	45005	Pickering Frenchman's Bay Sewage	149	19	28	35	44	63	117	148	40	35	2	INS
		Pickering	293	19	31	41	56	88	216	492	51	42	11	NIL
	45006	Lakeshore Park Sewage	57,555	10.07	(50.0)	10.00	7.7		77.3.7	1,57	•	-	5000	
		Pickering	326	18	27	37	44	60	103	175	39	34	2	NIL
	45007	Ajax-Pickering Hospital	terener	2010	50000	8856								
	45000	Pickering	332	18	27	35	45	63	102	142	39	34	1	NIL
	45008	Dufferin Creek Sewage Plant Pickering	65	17	25	30	43	62	86	91	36	32	NIL	INS
	45011	Public Library	03	1.7	23	30	43	02	00	91	30	32	INIL	INS
		Oshawa	110	33	42	54	66	90	126	142	58	54	2	NIL
	45025	Ritson Rd./Olive Ave.												
	*****	Oshawa	117	32	41	54	67	92	125	135	58	53	2	NIL
	46025	Mississauga Public Library		20		7.0	66					-	2	(31)
	46033	Mississauga Bramalea Fire Hall	54	39	55	79	98	138	176	179	82	73	9	1
	40000	Bramalea	55	27	40	55	74	96	137	145	60	53	2	NIL
	46045	2365 Dixie Rd.	00		0	00	N-1	30	.07	. 43	00	00	-	1416
		Mississauga	339	37	56	69	84	117	179	442	75	67	31	1
	46046	2360 Dixie Rd.												
		Mississauga	337	35	52	63	78	104	132	161	67	62	11	1
												1000		

Table 16 - Continued . . .

	CTATION		NO 05			DESC		_		444	ADIT	05011		ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCI	ENTILE:	s 90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRIT 24-HR.	ERIA 1-YR.
CENTRAL	46110	Queensway W./												
		Hurontario St.												
		Mississauga	116	49	67	79	101	113	196	201	88	81	20	NIL
	47019	Post Office												
		17-25 Peter St. N.												
		Orillia	47	24	32	39	59	79	137	167	50	44	1	NIL
	48002	MTC Yard #9,												
		Hwy 47 Stouffville	55	14	31	38	50	00	150	004		00	9	
	58027	51 Shuter St.	55	14	31	30	50	80	158	234	47	38	1	NIL
	30027	Port Hope	117	16	26	33	49	70	116	150	41	34	1	INS
	58028	2 Choate St.	2.2.5			00		, ,		,00		04		1140
		Port Hope	99	18	36	48	66	91	143	199	55	47	3	INS
	58029	66 Queen St.												
		Port Hope	119	20	33	41	57	83	108	117	47	41	NIL	INS
	59006	City Hall												
		500 George St.												
	(40105-511)	Peterborough	114	21	29	37	53	74	90	152	44	39	1	NIL.
SOUTH-	51001	McDonald Gdns												
EAST		Rideau/Wurtemburg St.	E 1	20	20	20	40	CE	0.0	0.0		0.7	A111	A.111
	51018	Ottawa 55 Queen St.	51	20	30	38	49	65	83	88	41	37	NIL	NIL
	51016	Ottawa	49	22	35	44	55	66	81	86	45	42	NIL	NIL
	52017	106 Clarence St.	45	22	33	44	33	00	01	00	45	42	NIL	INIL
	52011	Kingston	22	32	36	38	48	75	88	89	47	44	NIL	INS
	54013	Post Office Bldg.		-	-	00	-10		00	00	3.5			
		Belleville	56	21	32	43	57	78	118	155	48	42	1	NIL
	56006	4 Montreal Rd.												
		Cornwall	52	27	39	54	66	81	111	115	54	49	NIL	NIL
	56015	General Hospital							90					
		Brockville	28	14	22	35	40	68	81	82	37	30	NIL	INS
	56051	Memorial Park												
		York/Third St. Cornwall	F.C.	23	20	49	60	83	102	110	50	47	NIL	
		Cornwall	56	23	38	49	60	03	102	116	52	47	NIL	NIL
NORTH-	62013	Weather Station												
WEST	02010	Atikokan	55	10	19	28	38	59	115	154	33	26	1	NIL
	62030	Portage/Church St.							15.00					
		Fort Frances	58	28	78	100	130	187	297	316	97	74	19	1
	62032	Cemetery												
		Colonization Rd. W.												
		Fort Frances	58	16	26	41	54	84	179	213	49	39	3	NIL
	63005	Hospital												
		Archibald/Arthur Thunder Bay	59	26	38	50	69	92	172	178	59	E2	3	NIL
	63012	Dawson Ct./Algoma St. N.		20	36	30	09	92	1/2	170	39	52	3	NIL
	00012	Thunder Bay	59	18	29	37	59	81	151	170	49	39	5	NIL
	63022	Hospital				•	-			2.5.0	,,,	00		
		35 Algoma St. N.												
		Thunder Bay	58	20	33	43	59	86	150	156	52	44	4	NIL
	63040	435 James St. S.												
		Thunder Bay	54	18	27	37	52	71	101	117	43	37	NII	NIL
	63046	CanCar Bldg.												
		Montreal St.		0.4			~.		470		7.0	0.4	4.0	
	62052	Thunder Bay	58	31	44	59	74	144	172	174	72	61	10	1
	63052	Trnst Maint. Bldg. William Rd.												
		Thunder Bay	56	20	40	50	67	132	207	238	65	51	8	NIL
		mander bay	50	20	40	30	07	102	201	200	03	31	0	MIL
NORTH-	71020	Police Stn. Hillside Dr. N.												
EAST		Elliot Lake	56	21	34	42	55	92	154	164	50	42	2	NIL
	71022	Sault College, Queen St.												
		Sault Ste. Marie	35	39	62	84	98	158	223	245	88	75	5	INS
	71023	Quirke Townsite, No. 1												
		Elliot Lake	55	11	19	29	51	74	117	164	39	30	1	NIL
	71042	Bonney St. Pumphouse	40	F.0	00		000	0.10	00.	000				4
	71040	Sault Ste. Marie	43	50	92	143	209	313	394	398	166	130	26	1
	71049	Land Reg. Office Queen St.												
		Sault Ste. Marie	47	24	34	42	64	110	184	196	58	45	3	NIL
	71053	Denison Townsite	/	2.4	34	42	04	110	104	130	50	40	3	IVIL
	555	Elliot Lake	58	10	16	25	32	48	84	119	28	22	NIL	NIL
							-		-		20	-		

Table 16 - Continued . . .

	STATION		NO. OF			PERCE	NTILE	s		MAX.	ARITH.	GEOM.		ABOVE
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN		1-YR.
NORTH-	71054	Nordic Townsite												
EAST		Elliot Lake	53	7	13	17	24	42	55	61	21	17	NIL	NIL
	71061	Esker Lake Camp	35	11	18	31	41	68	101	108	35	28	NIL	INS
	71063	Trailer Park	1.70.71		1100000	0.75/00	777 52	3.3	1.00					
		Stollery Lake	34	17	25	42	65	113	369	501	66	44	3	INS
	75010	OPP Station	3-0-11	35071					000	001	00	1278.1380	0	1110
	are one methoday	North Bay	40	16	29	39	54	80	93	95	44	37	NIL	NIL
	77016	Ash Street		11.00			1300		-		AND TO SERVICE VIOLENCE OF THE PERSON OF THE	0,		
		Water Tank												
		Sudbury	56	18	31	45	55	74	96	98	45	40	NIL	NIL
	77026	19 Lisgar St.	100000	5555	-		10000			00	.0	,0	1.1.1	
		Sudbury	44	23	36	43	52	67	139	174	48	43	1	NIL
	77029	Post Office	N(S)		300	, 9	-	9.0		A31031	.0	-10		
		Spruce/Barber St.												
		Espanola	54	31	43	57	81	112	161	171	67	59	5	NIL
	77070	Nickel St. Pump House	0.TA:550					-			0,	00		
		Copper Cliff	53	26	35	49	63	87	113	118	53	47	NIL	NIL
	77076	Post Office											11.0	
		Falconbridge	47	20	30	38	44	67	121	139	42	37	1	NIL
NEMP	22902	Tyneside/Chippewa Rd.												
		Binbrooke West	53	18	27	34	42	50	54	54	35	31	NIL	NIL
	22904	Walpole South PS				9.1		00		0 1	00	0.	14115	14112
		Sandusk Rd.,												
		Nanticoke	47	18	31	37	46	68	82	91	40	37	NIL	NIL
	22951	Walpole Con. 11/		,,,,,,,	-			0.0	02	0.1	40	01	INIL	INIL
		Sandusk Rd.												
		Hagersville	60	20	31	41	51	67	102	129	44	40	1	NIL
	22952	100 M SE. Lakeshore Rd.											7.	
		Peacock Prov. Park	55	17	27	35	42	58	96	104	37	33	NIL	NIL
	22953	Waterford Conc. 2/								2650 57.	200	1717	110000	3100E
		E. Quarterline												
		Dogs Nest	118	15	25	33	43	65	98	155	38	33	1	NIL
	22954	E. Quarterline/												
		Waterford Conc. 13												
		Villa Nova	59	17	28	34	43	64	105	119	39	35	NIL	NIL
	22955	Hald Norf Rd. 8/												
		Cayuga Conc. 2												
		Rainham Ctr.	56	19	27	36	44	58	64	68	37	33	NIL	NIL
	22956	Hald-Norf Rd. 17/												
		H-N Rd. 32												
		Canfield S.	61	21	33	39	48	66	94	121	42	38	1	NIL
	22957	Fisherville/Indian Line Rd.												
	-	Fisherville	60	21	34	41	51	73	102	121	45	40	1	NIL
	22958	H-N Rd 63/												
		5 Km E. H-N Rd. 14												
	March State (	Canborough E.	54	18	31	39	48	69	116	141	42	37	1	NIL
	22959	Hwy 59												
		Big Creek												
	20052	Wildlife Reserve	58	15	26	36	49	67	94	97	40	35	NIL	NIL
	22960	McKenzie Rd./H-N Rd. NN			0900									
		Dufferin North	58	17	28	39	47	67	94	124	40	36	1	NIL
	22961	Nanticoke Rd./												
		Walpole Conc. 2	1972	02040	7 <u>2</u> 1000	525000	<u>120</u> 420							
	20052	Nanticoke	108	17	28	38	50	74	109	184	43	37	1	NIL
	22963	NNW 6	446		0-	( <u>*</u>		12000	424	20202	200	25-	00	5092
		Stelco North	115	16	25	40	52	77	162	331	46	37	3	NIL

Table 17 Summary of Data: Sulphate in Suspended Particulate (all values in micrograms per cubic meter)

No Existing Criterion

	STATION		NO. OF			PERCE	NTILES	3		MAX.	ARITH.	<b>GEOM</b>
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN
SOUTH- WEST	12002	City Hall 44 Windsor Ave. Windsor	57	6.7	9.7	12.2	15.2	20.2	26.7	29.7	13.1	12.0
	12005	7730 Riverside Dr. W.									500	
		Windsor	59	5.1	8.2	9.8	11.4	17.4	31.7	36.1	11.0	9.8

Table 17 - Continued . . .

	STATION		NO. OF		1	PERCE	NTILES	č		MAX.	ARITH.	GEOM.	
REGION	NUMBER	LOCATION		10	30	50	70	90	99	CONC.	MEAN	MEAN	
SOUTH-	12008	467 University Ave. W.							THE STATE OF				
WEST	12008	Windsor	314	5.3	6.9	8.9	11.9	19.1	30.8	44.5	10.8	9.4	
	12009	9725 Riverside Dr. E.				9000	in three i	10000000	1777.17	NPANGSA.	0.5.55	2.表语(1)	
		Little River	41	5.2	7.1	8.4	12.4	16.4	23.8	26.4	10.2	9.2	
	12010	Tecumseh Sewage Stn.											
		Manning Rd.											
		Windsor	58	4.9	7.3	10.2	13.2	18.3	29.6	36.4	11.1	9.8	
	12013	Filtration Plant											
		3665 Wyandotte St. E.		7.0	0.0			04.7	00.0	20.0		400	
		Windsor	56	7.6	9.9	12.7	16.1	21.7	29.2	33.8	14.1	12.9	
	12014	University Met. Stn. College/Calif. St.											
		Windsor	54	7.0	9.3	11.7	144	193	30.3	36.2	12.6	11.6	
	12015	Sewage Plant	0.4	70	0.0	11111	1. 1. 1	10.0	00.0	00.2	12.0		
	,20.0	Hwy 18/Prospect											
		Windsor	54	8.6	11.5	13.5	15.2	22.0	28.6	32.3	14.4	13.4	
	12032	Morton Dock											
		Bedford/Ojibway											
		Windsor	55	7.1	10.7	13.7	15.6	20.1	26.8	29.3	13.6	12.6	
	13003	Post Office											
		10 Center St.	40	4.7	7.0	0.7	10.4	170	240	040	100	0.0	
	12022	Chatham RR #3	46	4.7	7.0	8.7	13.1	17.3	24.6	24.9	10.6	9.3	
	13022	NNW of House											
		Blenheim	26	6.2	7.9	117	13.4	16.7	180	18.0	11.2	10.4	
	13023	RR #1	20	0.2	7.0	M. Maria	10.1	10.1	10.0	10.0	N/Aste		
	,0020	Behind the Barn											
		Blenheim	54	4.8	6.7	9.1	12.7	16.8	31.3	38.2	10.5	9.0	
	13024	Jackson Farm											
		Blenheim	52	5.4	7.2	9.0	12.8	17.0	40.2	62.8	11.4	9.6	
	13025	RR #2											
		Behind the Barn	-	1 2							202	78.80	
	44004	Blenheim	47	4.9	6.4	8.5	12.0	15.2	25.1	29.8	9.8	8.6	
	14001	General Hospital											
		220 Minton St. Sarnia	58	5.4	6.8	10.5	13.0	103	24.1	25.6	11.1	9.9	
	14016	Opposite Lambton GS	30	5.4	0.0	10.5	10.0	13.5	47.1	20.0	1.000	5.5	
	, , , , ,	Hwy 40											
		Courtright	128	4.4	5.7	7.6	9.9	14.5	26.7	37.0	8.8	7.4	
	14030	RR #1											
		West of House											
		Corunna	51	5.2	6.9	7.8	11.0	16.6	22.4	27.6	9.5	8.6	
	14031	RR #1											
		West side of Barn	50	- 0	7.0	0.0	44.0		04.0	00.0	0.0	0.0	
	14054	Mooretown Sarnia Yacht Club	52	5.9	7.0	8.0	11.3	14./	21.8	28.2	9.6	8.8	
	14054	Port Edward											
		Sarnia	57	5.1	6.9	8.9	11.2	16.9	25.6	30.0	10.2	9.1	
	14064	Centennial Park	21	9.1	5.5	3.0		. 5.5	_5.0	20.0		3.1	
		Front St./CN Tracks											
		Sarnia	57	5.1	7.5	9.7	12.1	18.7	28.5	29.5	10.9	9.6	
	14151	St. Clair River											
		Front/David St.	page and		9.000	, quarra de-	0911114 144	12000	10. <u>11</u> 0.02	5000000	ngounna	000000000	
		Sarnia	56	5.5	7.3	8.9	14.1	20.2	26.6	27.8	11.4	10.0	
	15001	Western Fair Grounds											
		King/Rectory London	56	4.5	6.3	8.0	10.6	1/ E	20 E	277	0.0	8.1	
	15003	362 Dundas St.	56	4.5	0.3	0.0	10.6	14.3	20.5	27.7	9.0	0.1	
	10000	London	53	3.8	5.6	6.8	93	13.4	19.6	23.7	8.2	7.3	
			00	0.0	0.0	0.0	0.0			2011	5.2	7.0	
WEST-	22071	Experimental Farm											
CENTRAL		Simcoe	55	3.7	5.5	7.5	9.9	14.6	21.2	26.4	8.4	7.3	
	22086	Cheapside Rd.		-				8					
		3 Km S of Hwy 3											
		Nanticoke	57	4.9	6.4	8.2	10.5	18.4	25.4	26.7	9.8	8.6	
	26029	Edna/Frederick St.	22/02	<u>1</u> 2(152)	2013		200	122		22 VA	102000	185 Av.	
	07000	Kitchener	54	5.9	8.1	9.6	12.1	18.0	22.2	25.4	10.8	9.9	
	27008	71 King St.	50	4.0	6.6	0.0	10.7	140	20.6	22.7	0.1	0.0	
	27037	St. Catharines North/Geneva St.	56	4.9	6.6	8.2	10.7	14.9	20.6	23.7	9.1	8.3	
	2/03/	St. Catharines	58	5.1	6.7	9.0	11.8	144	216	22.4	9.6	8.8	
		Jr. Camarines	56	0.1	0.7	3.0	11.0		£ 1.0	22.4	3.0	0.0	

Table 17 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX.	ARITH. MEAN	GEOM. MEAN	
WEST- CENTRAL	27048	Niagara Public Works Dominion Rd.											
	27049	Fort Erie Murray/Buchanan Ave.	53	5.4	6.4	8.3		15.2		31.5	9.5	8.5	
	28025	Niagara Falls Farquhar/Wyndham St. Guelph	55 53	6.3 4.4	7.5	9.0		15.0		23.1	10.1	9.4	
	29001	Hughson/Hunter				8.8		13.4		26.1	9.2	8.2	
	29008	Hamilton North Park Hamilton	58	4.8	7.1	8.7		17.3		24.2	10.1	9.0	
	29011	Burlington/Leeds Hamilton	319 63	6.0	7.7 8.1	10.8	13.8			43.6	12.0	10.7	
	29012	Burlington/Wellington Hamilton	68	5.1	6.7	9.0		18.7		32.1 26.4	11.9 9.6	10.8	
	29017	Chatham/Frid Hamilton	57	5.6	7.3	10.5		18.2		28.6	11.5	10.3	
	29025	Barton/Wentworth Hamilton	314										
	29085	Upper Wellington/ Inverness		5.5	7.0	8.9		18.7		41.0	10.9	9.6	
	29087	Hamilton 405 Cumberland Ave.	55	5.2	7.0	8.9		17.0		27.6	10.4	9.3	
		Hamilton	58	5.7	6.9	8.8	11.7	15.4	21.5	24.4	10.0	9.2	
CENTRAL	31001	67 College Ave, 5th Fir Toronto 360 Christie St.	163	6.8	8.4	9.8	11.8	16.2	23.9	29.1	10.8	10.1	
	31086	Toronto 15 Breadalbane	89	6.5	8.0	8.9	10.6	13.9	19.0	19.3	9.8	9.4	
	31104	Toronto 26 Breadalbane	103	6.5	8.3	9.3	10.6	14.1	22.9	27.3	10.2	9.6	
	31105	Toronto Sherbourne/Wilton St.	177	6.8	8.0	9.1	11.6	14.3	25.8	29.4	10.3	9.7	
	31120	Toronto Junction Triangle Perth Ave.	117	6.7	8.4	10.4	12.6	17.2	26.7	28.0	11.3	10.6	
	33003	Toronto Lawrence/Kennedy	77	6.0	8.1	9.0	11.0	15.8	22.1	32.3	10.1	9.4	
	34002	Scarborough Science Centre	111	5.7	7.3	8.8	10.6	14.2	23.4	24.8	9.8	9.1	
	34007	770 Don Mills Rd. North York Bathurst/Wilson	117	5.8	7.6	8.9	11.0	14.3	24.3	27.5	9.8	9.1	
	35003	North York Elmcrest Rd.	34	8.5	9.5	10.9	13.2	18.0	20.8	21.0	12.0	11.4	
		Etobicoke	102	6.3	7.9	9.3	11.2	15.3	20.3	28.5	10.1	9.4	
	35005	Queensway Hospital Etobicoke	111	6.0	7.4	8.5	10.6	15.6	28.8	30.7	10.0	9.2	
	35033 44008	Evans/Arnold Ave. Etobicoke Hwy 2/	121	7.9	9.6	12.0	14.9	19.5	26.8	38.9	13.1	12.1	
		North Shore Blvd. E. Burlington	117	6.5	8.1	9.3	11.5	16.6	28.3	28.6	10.8	10.0	
	44015	Bronte Rd./Woburn Cres. Oakville	108	5.7	7.3	8.5	11.1	15.7	24.2	25.9	9.9	9.0	
	45001	Pickering Fire Hall Pickering Public Library	327	4.0	5.2	6.7	9.2	15.0	22.3	27.2	8.1	7.2	
	45011	Oshawa	109	5.6	8.2	10.4	12.5	170	22.5	26.1	10.9	10.0	
	45025	Ritson Rd./Olive Ave. Oshawa Mississauga Rublia Library	117	5.9	7.9	9.7	11.3	14.4	20.7	30.2	10.2	9.5	
	46025	Mississauga Public Library Mississauga	54	5.5	8.0	10.3	13.7	17.6	27.3	30.9	11.4	10.3	
	46033	Bramalea Fire Hall Bramalea	55	5.3	6.7	8.7	10.4	13.9	20.7	26.0	9.0	8.2	
	46110	Queensway W./ Hurontario St.	111	6.1	82	11.1	14 1	18.1	36.0	45.1	12.0	10.8	
	47019	Mississauga Post Office	111	0.1	0.2	1.1.1	1 -4.1	10.1	30.3	40.1	12.0	10.0	

Table 17 - Continued . . .

	STATION		NO. OF			DEDCE	NTILES			MAX.	ARITH.	GEOM.	
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	
CENTRAL	58027	51 Shuter St.											
		Port Hope	117	3.7	4.8	6.3	9.8	16.7	28.2	29.7	8.4	7.0	
	58028	2 Choate St.											
		Port Hope	99	3.6	5.3	7.0	10.8	19.8	28.7	29.3	9.1	7.5	
	58029	66 Queen St.											
		Port Hope	119	3.5	4.6	6.6	10.3	17.4	26.5	27.0	8.6	7.1	
	59006	City Hall											
		500 George St.											
		Peterborough	114	4.4	5.8	7.0	9.2	12.8	20.0	22.8	8.0	7.3	
SOUTH-	51001	McDonald Gardens											
EAST		Rideau/Wurtemburg St.											
		Ottawa	51	4.3	6.2	7.5	10.0	13.9	18.4	19.0	8.6	7.8	
	51018	55 Queen St.											
	0.0.0	Ottawa	49	5.1	6.5	8.5	10.4	16.3	19.9	20.7	9.5	8.7	
	54013	Post Office Bldg.	100	##.	55.1.5		धक्या छ		1555.000	\$7.550V	62.57	7.0	
	9.19.19	Belleville	56	3.9	4.8	6.0	7.9	13.7	19.8	22.5	7.3	6.5	
	56006	4 Montreal St.	-70.70		7,000	1.70	Butoma.						
		Cornwall	52	5.5	7.0	8.9	10.8	14.8	21.0	21.9	9.7	8.9	
	56015	General Hospital											
		Brockville	28	4.5	5.8	7.8	10.9	17.0	27.0	27.4	9.9	8.4	
	56051	Memorial Park											
		York/Third St.											
		Cornwall	54	6.0	8.5	10.0	11.2	17.8	24.5	25.5	10.9	9.9	
NORTH-	63005	Hospital											
WEST		Archibald/Arthur											
		Thunder Bay	59	4.6	6.6	7.9	9.1	12.7	20.0	20.8	8.4	7.8	
	63022	Hospital											
		35 Algoma St. N.											
		Thunder Bay	58	3.3	5.4	6.8	8.9	11.5	14.6	15.1	7.3	6.6	
	63040	435 James St. S.											
		Thunder Bay	54	3.1	5.3	7.0	8.7	12.1	18.6	18.9	7.3	6.4	
NORTH-	71022	Sault College											
EAST		Queen St.											
		Sault Ste. Marie	35	6.6	10.8	13.8	15.9	19.8	26.9	29.1	13.6	12.3	
	71042	Bonney St. Pumphouse											
		Sault Ste. Marie	40	5.1	8.2	11.5	17.4	24.7	57.1	65.0	15.0	11.8	
	71049	Land Reg. Office											
		Queen St.											
		Sault Ste. Marie	47	4.3	6.8	7.9	9.1	14.1	22.0	23.2	8.8	7.8	
	75010	OPP Station											
		North Bay	40	3.8	4.8	6.4	7.6	11.5	30.8	44.1	7.9	6.6	
	77016	Ash Street Water Tank											
		Sudbury	55	4.9	7.7	10.2	14.4	18.0	23.1	24.3	11.3	9.8	
	77026	19 Lisgar St.											
		Sudbury	44	5.1	7.0	9.3	11.7	16.0	23.7	26.6	10.0	8.9	
	77070	Nickel St. Pump House											
		Copper Cliff	52	6.3	9.9	12.1	16.9	22.8	28.6	33.1	13.8	11.9	
	77076	Post Office										545	
		Falconbridge	43	4.4	6.2	8.5	10.8	14.6	20.7	23.3	8.9	7.4	

Table 18 Summary of Data: Nitrates in Suspended Particulate Matter (all values in micrograms per cubic meter)

No Existing Criterion

	STATION		NO. OF		- 1	PERCE	NTILES	;		MAX.	ARITH.	GEOM.
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN
SOUTH-	12002	City Hall										
WEST		44 Windsor Ave.										
		Windsor	58	2.5	4.6	6.1	8.8	11.6	18.6	19.4	7.0	5.8
	12005	7730 Riverside Dr. W.										
		Windsor	59	1.6	3.4	4.7	6.5	7.9	10.4	11.1	4.9	4.0
	12008	467 University Ave. W.										
		Windsor	316	1.5	2.8	4.1	5.9	9.5	17.2	22.4	4.9	3.9
	12009	9725 Riverside Dr. E.										
		Little River	43	1.3	2.7	4.4	5.3	7.9	12.2	13.7	4.5	3.6

Table 18 - Continued . . .

	STATION		NO. OF		1	PERCE	NTILES	3		MAX.	ARITH.	GEOM.	
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	
OUTH-	12010	Tecumseh Sewage Stn.	*										
EST		Manning Rd.											
		Windsor	58	1.6	2.5	3.9	5.3	8.0	13.3	14.3	4.5	3.6	
	12013	Filtration Plant											
		3665 Wyandotte St. E.											
	12014	Windsor	56	2.5	4.3	5.8	7.7	10.0	14.3	14.7	6.3	5.4	
	12014	University Met. Stn. College/Calif. St.											
		Windsor	49	2.1	3.8	5.3	6.8	8.8	12.7	13.6	5.5	4.7	
	12015	Sewage Plant	45		0.0	0.0	0.0	0.0	12.7	10.0	5.5	4.7	
	10.81 0	Hwy 18/Prospect											
		Windsor	55	2.7	3.8	5.9	7.0	9.4	14.0	17.7	6.0	5.2	
	12032	Morton Dock											
		Bedford/Ojibway											
	10000	Windsor	57	1.8	3.4	4.8	7.2	9.6	13.6	18.1	5.5	4.5	
	13003	Post Office 10 Center St.											
		Chatham	46	1.9	3.8	4.9	6.2	9.3	18.1	18.7	5.6	4.6	
	13022	RR #3	40	1.3	3.0	4.5	0.2	9.3	10.1	10.7	5.0	4.0	
		NNW of House											
		Blenheim	26	2.8	4.6	5.4	7.3	10.0	13.8	15.2	6.1	5.4	
	13023	RR #1											
		Behind the Barn	6270	Q. 100	5-350W	5 50	220000	227075	S15E 16	730 E. 174		5 52	
	12001	Blenheim	54	1.4	2.8	4.2	5.9	8.2	12.0	13.8	4.5	3.5	
	13024	Jackson Farm Blenheim	52	1.2	2.6	4.1	5.1	7.5	12.4	157	4.0	2.0	
	13025	RR #2	52	1.2	2.6	4.1	5.1	7.5	12.4	15.7	4.3	3.2	
	13025	Behind the Barn											
		Blenheim	47	1.6	2.5	3.9	4.9	7.2	12.5	14.8	4.2	3.3	
	14001	General Hospital	2000		2.0	0.0			. 2.0			0.0	
		220 Minton St.											
		Sarnia	58	1.2	2.9	4.3	5.8	9.0	14.8	19.1	4.8	3.7	
	14016	Opposite Lambton GS											
		Hwy 40	29/2020	02 020		722 527	201120	S20 10	3 07.0	1992 120	5500	2.0	
	4.4000	Courtright	128	1.0	2.4	3.8	5.4	8.1	11.3	13.5	4.2	3.1	
	14030	RR #1											
		West of House Corunna	51	1.1	2.5	4.1	5.5	0.2	13.3	13.7	4.4	3.3	
	14031	RR #1	31	1.1	2.0	4.1	3.3	0.2	13.3	13.7	4.4	3.3	
		West side of Barn											
		Mooretown	50	1.0	2.0	3.6	5.0	6.9	9.8	10.1	3.7	2.9	
	14054	Sarnia Yacht Club											
		Port Edward											
	44004	Sarnia	57	1.3	2.3	3.9	6.0	8.0	12.4	14.1	4.3	3.4	
	14064	Centennial Park Front St./CN Tracks											
		Sarnia	57	1.2	2.7	3.8	5.6	9.5	14.5	16.2	4.7	3.5	
	14151	St. Clair River	37	1.2	2.1	3.0	5.0	9.0	14.5	10.2	4.7	3.3	
	1. 35. M	Front/David St.											
		Sarnia	57	1.4	2.6	4.5	6.3	9.2	13.1	13.7	4.9	3.8	
	15001	Western Fair Grounds											
		King/Rectory			<u> </u>								
		London	56	1.2	2.3	3.7	5.7	8.8	13.3	13.5	4.6	3.5	
	15003	362 Dundas St.			0.0	0 -			40.	40 -			
		London	53	1.3	2.6	3.5	5.0	8.3	12.1	12.3	4.3	3.3	
EST-	22071	Experimental Farm											
ENTRAL	2207	Simcoe	55	1.4	2.3	3.5	4.5	5.7	8.0	9.4	3.4	2.7	
_1311 V.V.	22086	Cheapside Rd.	50		2.0	0.0	1.0	3.1	5.0	J.4	5.4		
		3 Km S of Hwy 3											
		Nanticoke	57	1.4	2.4	3.9	4.9	8.0	12.3	12.9	4.2	3.3	
	26029	Edna/Frederick St.											
		Kitchener	54	1.1	2.6	4.5	6.0	8.1	14.2	15.8	4.7	3.4	
	27008	71 King St.	W 26	اس و	200		(24.72		1000000	22	02.598		
	27027	St. Catharines	56	1.5	3.0	3.9	5.1	8.7	11.7	13.4	4.5	3.6	
	27037	North/Geneva St. St. Catharines	6.0	1 5	20	20	E 4	7.0	120	122		2.6	
	27048	Niagara Public Works	58	1.5	2.8	3.8	5.4	7.9	13.0	13.2	4.4	3.6	
	2,040	Dominion Rd.											
		Fort Erie	53	1.2	2.4	3.0	4.3	5.7	8.4	9.9	3.4	2.8	
	27049	Murray/Buchanan Ave.						3.11			200		
		Niagara Falls	55	2.4	2.9	4.1	5.7	7.4	11.0	13.0	4.5	4.0	
		0.84											

Table 18 - Continued . . .

	STATION		NO. OF			PERCE	NTILES			MAX.	ARITH.	GEOM.	
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	
WEST-	28025	Farquhar/Wyndham St.											
CENTRAL	20020	Guelph	53	1.2	2.2	3.5	4.8	7.9	12.5	12.8	4.2	3.2	
	29001	Hughson/Hunter	50		0.0	4.0		0.0	400	15.0			
	29008	Hamilton North Park	58	1.8	2.8	4.3	6.1	9.2	13.8	15.2	5.0	4.1	
	23000	Hamilton	326	1.1	2.4	4.0	5.7	9.1	17.0	20.8	4.7	3.5	
	29011	Burlington/Leeds	(200							OPERATE	110000		
	29012	Hamilton Burlington/Wellington	69	1.5	2.6	4.3	6.2	8.6	12.9	14.1	4.8	3.8	
	29012	Hamilton	68	1.3	2.3	3.5	5.4	8.4	14.3	18.8	4.4	3.3	
	29017	Chatham/Frid											
		Hamilton	57	1.7	2.7	4.5	6.6	9.5	16.2	17.9	5.2	4.0	
	29025	Barton/Wentworth Hamilton	317	1.1	2.3	3.8	5.6	94	15.0	25.0	4.6	3.4	
	29085	Upper Wellington/	317		2.0	0.0	0.0	0.4	10.0	20.0		0.4	
		Inverness											
	20227	Hamilton	55	1.6	2.8	4.3	5.7	9.0	13.2	14.2	4.7	3.7	
	29087	405 Cumberland Ave. Hamilton	58	1.5	2.4	3.9	5.5	7.4	11.7	11.9	4.3	3.4	
		Trailinton	00	,,,,		0.0	0.0	0.60503-0	0503050				
CENTRAL	31001	67 College Ave., 5th Flr											
	31026	Toronto 360 Christie St.	163	1.6	2.6	4.2	6.6	9.7	15.7	17.9	5.2	4.0	
	31020	Toronto	77	1.5	2.7	4.6	6.4	9.7	14.3	15.9	5.1	4.0	
	31086	15 Breadalbane											
	24424	Toronto	91	1.2	2.4	3.9	6.4	8.3	16.9	20.0	4.7	3.6	
	31104	26 Breadalbane Toronto	232	1.1	2.6	4.3	6.8	10.3	15.0	17.4	5.1	3.7	
	31105	Sherbourne/Wilton St.	LUL		2.0	1.0	0.0	10.0	10.0	1.5.4.3	0.,	0.7	
		Toronto	119	1.3	2.5	3.7	6.7	9.8	15.5	16.2	5.0	3.8	
	31120	Junction Triangle											
		Perth Ave. Toronto	77	1.3	3.0	4.5	6.3	7.9	12.5	13.0	4.8	3.8	
	33003	Lawrence/Kennedy	1075677	100.00	67.16	1112	10.10	12.00	10.701.70	W.7545.	33,770		
		Scarborough	108	0.9	2.1	3.2	5.4	7.4	10.2	12.4	3.9	3.0	
	34002	Science Centre											
		770 Don Mills Rd. North York	117	1.1	2.1	3.6	5.5	7.9	12.9	14.3	4.1	3.1	
	34007	Bathurst/Wilson	10.10.10	5,035					1000	0.003			
		North York	34	1.2	2.2	4.2	6.1	11.1	15.9	17.2	5.1	3.7	
	35003	Elmcrest Rd. Etobicoke	102	1.1	2.2	4.1	6.5	9.2	14.8	15.7	4.7	3.5	
	35005	Queensway Hospital	102	5.5.5	2.2	7.1	0.0	0.2	1 4.0	, 0.,	7.4	0.0	
		Etobicoke	112	1.2	2.5	4.2	5.5	8.3	11.4	16.8	4.5	3.5	
	35033	Evans/Arnold Ave. Etobicoke	117	1.7	3.1	5.6	7.2	12.3	168	17.0	6.3	4.9	
	44008	Hwy 2/	117	1.7	3.1	5.0	1.5	12.5	10.0	17.0	0.5	4.5	
	500 T. T. T.	North Shore Blvd. E.											
	44045	Burlington	113	1.3	3.1	4.8	6.4	9.3	15.6	17.1	5.2	4.1	
	44015	Bronte Rd./Woburn Cres. Oakville	108	0.9	2.0	3.6	5.0	7.1	11.5	12.4	3.8	2.9	
	45001	Pickering Fire Hall	, , ,			9.00	0.0		0.100				
		Pickering	327	0.8	1.7	2.8	4.6	8.0	13.1	14.8	3.7	2.7	
	45011	Public Library Oshawa	109	1.1	1.9	3.8	5.6	80	11.6	13.8	4.2	3.2	
	45025	Pitson Rd./Olive Ave.	109	1.1	1.5	3.0	5.0	0.0	11.0	13.0	4.2	0.2	
		Oshawa	117	1.0	2.3	3.4	5.7	7.7	12.8	15.5	4.3	3.3	
	46025	Mississauga Public Library				0.7			45.0	100	4.0	2.5	
	46033	Mississauga Bramalea Fire Hall	54	1.3	2.4	3.7	5.3	8.3	15.6	18.6	4.6	3.5	
	40000	Bramalea	55	0.9	1.6	3.7	5.7	8.1	12.7	14.7	4.2	3.0	
	46110	Queensway W./											
		Hurontario St.	108	1.3	2.9	4.3	6.4	100	16.1	16.4	5.1	3.8	
	47019	Mississauga Post Office	108	1.3	2.9	4.3	0.4	10.0	10.1	10.4	J. I	3.0	
		17-25 Peter St. N.											
		Orillia	47	0.8	1.4	2.0	4.0	6.1	10.3	13.7	3.0	2.2	
	58027	51 Shuter St. Port Hope	109	0.6	1.6	3.1	4.6	7 0	15.3	15.4	3.8	2.5	
	58028	2 Choate St.	109	0.0	1.0	3.1	4.0	1.5	10.0		0.0	2.0	
		Port Hope	99	1.0	2.6	4.1	9.0	14.2	22.0	22.7	6.3	3.9	
			200				-		100				

Table 18 - Continued . . .

	STATION		NO. OF			PERCE	NTII EC			MAX.	ARITH.	GEOM.	
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	
CENTRAL	58029	66 Queen St.											
		Port Hope	119	0.5	1.5	3.1	4.7	9.0	15.0	17.8	3.9	2.5	
	59006	City Hall											
		500 George St.											
		Peterborough	114	0.5	1.3	2.4	4.1	6.6	8.8	14.6	3.0	1.9	
SOUTH-	51001	McDonald Gardens											
EAST		Rideau/Wurtemburg St.											
		Ottawa	51	0.5	0.9	1.8	2.7	4.8	7.0	8.1	2.2	1.6	
	51018	55 Queen St.											
		Ottawa	49	0.5	0.9	1.7	2.7	4.5	7.2	8.7	2.3	1.7	
	54013	Post Office Bldg.											
		Belleville	56	0.7	1.3	2.0	3.3	5.8	10.2	13.3	2.8	2.0	
	56006	4 Montreal St.											
	name name name	Cornwall	52	1.0	1.5	2.4	3.5	6.0	10.4	11.1	3.0	2.3	
	56015	General Hospital		12020	0.00	-	72.72	Ca 121	22/12/2	1000000	200		
	50054	Brockville	30	0.8	1.5	2.3	3.6	5.2	6.5	6.7	2.7	2.1	
	56051	Memorial Park York/Third St.											
		Cornwall	56	0.8	1.6	2.4	4.0	63	10.1	10.3	3.2	2.4	
		Commun	00	0.0	1.0	2.7	4.0	0.5	10.1	10.5	0.2	2.4	
NORTH-	63005	Hospital											
WEST		Archibald/Arthur											
		Thunder Bay	59	0.6	1.0	1.3	2.5	4.6	8.7	13.6	2.2	1.5	
	63022	Hospital											
		35 Algoma St. N.											
		Thunder Bay	58	0.4	0.6	1.1	2.3	4.1	9.1	11.7	1.8	1.1	
	63040	435 James St. S.		0.5							2.1	V. 3	
		Thunder Bay	54	0.5	0.9	1.4	2.2	5.3	9.5	12.6	2.1	1.4	
NORTH-	71022	Sault College											
EAST		Queen St.											
	2275 27 20	Sault Ste. Marie	35	8.0	1.4	1.9	2.6	6.7	10.0	10.1	2.8	2.0	
	71042	Bonney St. Pumphouse				N. M. Charles			to a Total Constitution		To the Control of Market		
	74040	Sault Ste. Marie	47	0.5	1.2	1.7	2.6	6.6	10.7	11.4	2.8	1.8	
	71049	Land Reg. Office											
		Queen St. Sault Ste. Marie	47	0.5									
	75010	OPP Station	47	0.5	1.1	1.6	2.1	4.9	8.3	9.1	2.1	1.5	
	75010	North Bay	40	0.5	0.0	1.1	1.0	2.7	E 0	E 0	1.7	1.0	
	77016	Ash Street Water Tank	40	0.5	0.8	1.4	1.9	3.7	5.2	5.8	1.7	1.2	
	77010	Sudbury	56	0.5	1.1	1.7	2.6	4.4	11.2	11.8	2.4	1.6	
	77026	19 Lisgar St.	30	0.5	1.1	1.7	2.0	4.4	11.2	11.0	2.4	1.0	
	. , , , ,	Sudbury	44	0.6	1.3	1.7	1.9	3.6	8.2	13.3	2.0	1.6	
	77070	Nickel St. Pump House	ಂಪಕರತು:	0.0	1.0	1.7	1.0	0.0	0.2	.0.0	2.0	1.0	
		Copper Cliff	53	0.5	1.1	1.8	2.4	4.4	12.3	13.0	2.3	1.6	
	77076	Post Office			5.5		7.00	555					
		Falconbridge	47	0.3	0.7	1.1	1.5	2.5	4.3	4.5	1.5	0.9	
			200								120000	15000/	

Table 19 Summary of Data: Lead in Suspended Particulate Matter – XRF (all values in micrograms per cubic meter)

Ontario Criterion – 24-Hour average: 5.0 ug/m<sup>3</sup>

	STATION		NO. OF			PERCE	NTILES	6		MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERIA
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
SOUTH- WEST	12002	City Hall 44 Windsor Ave.											
	12008	Windsor 467 University Ave.	58	0.1	0.2	0.3	0.4	0.5	1.1	2.0	0.3	0.3	NIL
	12009	Windsor 9725 Riverside Dr. E.	316	0.1	0.2	0.3	0.4	0.6	1.2	2.0	0.4	0.3	NIL
	12032	Little River Morton Dock	43	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.1	0.1	NIL
		Bedford/Ojibway Windsor	57	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.2	0.1	NIL

Table 19 - Continued . . .

	CTATION		NO OF			DEDOF	NTII 50				ADITU	GEOM.	TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	70	90	99	MAX.	MEAN	MEAN	CRITERION 24-HR.
SOUTH-	14054	Sarnia Yacht Club											
WEST		Port Edward			0.1		0.0	0.0	0.4	0.4	0.1	0.1	NIII
	14064	Sarnia Centennial Park	57	0.1	0.1	0.1	0.2	0.2	0.4	0.4	0.1	0.1	NIL
	14064	Front St./CN Tracks											
		Sarnia	59	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.1	0.1	NIL
	15001	Western Fair Grounds					0.2						
		King/Rectory											
		London	56	0.1	0.2	0.3	0.4	0.6	1.1	1.3	0.3	0.2	NIL
	15003	362 Dundas St.			22.3								
	17010	London 1401 Parkinson E.	53	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.2	0.1	NIL
	17019	Woodstock	80	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.1	0.0	NIL
		Woodstook	00	0.1	0.,	0.1	0.1	0.2	0.1	0.1	0.1	0.0	
WEST	26029	Edna/Frederick St.											
CENTRAL		Kitchener	54	0.3	0.5	0.8	1.2	1.9	3.8	4.2	1.0	0.8	NIL
	27037	North/Geneva St.											
		St. Catharines	58	0.1	0.2	0.3	0.4	0.6	0.9	0.9	0.3	0.2	NIL
	27049	Murray/Buchanan Ave.			٠.	0.0	0.0		0.5	0.0	0.0	0.1	NIII
	28025	Niagara Falls	55	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.2	0.1	NIL
	28025	Farquhar/Wyndham St. Guelph	53	0.1	0.1	0.2	0.3	0.5	0.6	0.6	0.2	0.1	NIL
	29008	North Park	55	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.2	0.1	
	23000	Hamilton	326	0.2	0.6	0.7	0.9	1.2	1.7	2.3	0.8	0.6	NIL
	29017	Chatham/Frid		2000	1471.270	55.73							
		Hamilton	57	0.1	0.2	0.3	0.5	0.9	2.0	2.6	0.5	0.3	NIL
	29025	Barton/Wentworth											
		Hamilton	317	0.3	0.4	0.6	0.8	1.2	2.1	3.1	0.7	0.6	NIL
OFNITON	04004	67 C-11 St 5th 51											
CENTRAL	31001	67 College St. 5th Floor Toronto	167	0.1	0.2	0.3	0.5	0.9	1.3	1.4	0.4	0.3	NIL
	31018	35 Bathurst St.	107	0.1	0.2	0.0	0.0	0.0	1.0	1.00	0.4	0.0	
	0.0.0	Toronto	353	0.3	0.5	0.6	1.0	1.5	3.2	8.3	0.8	0.6	2
	31058	Mosley/Leslie St.											
		Toronto	345	0.3	0.5	0.8	1.2	2.1	4.2	4.7	1.1	0.8	NIL
	31064	17 Berkshire Ave.	1.0.3	3.70	11.00 1723	127.021	12072	27 (2.0	101.604	10.0	100000		Renorms
	04005	Toronto	351	0.2	0.4	0.6	0.9	1.6	2.5	4.0	0.8	0.5	NIL
	31065	633 Eastern Ave. Toronto	346	0.2	0.5	0.8	1.2	2.1	3.8	6.1	1.0	0.7	1
	31079	1285 Dufferin St.	340	0.2	0.5	0.0	1.2	2.1	3.0	0.1	1.0	0.7	
	0.0.0	Toronto	342	0.3	0.4	0.6	0.8	1.1	2.0	4.6	0.6	0.5	NIL
	31082	Works Dept.											
		138 Hamilton Ave.											
		Toronto	349	0.3	0.5	0.7	0.9	1.5	2.6	5.3	0.8	0.7	1
	31084	Maydwell Mfg.											
		65 Saulter St. Toronto	352	0.2	0.3	0.4	0.6	1.0	1.7	3.3	0.5	0.4	NIL
	31085	Tecumseth/Niagara St.	352	0.2	0.3	0.4	0.6	1.0	1.7	3.3	0.5	0.4	MIL
	01000	Toronto	338	0.3	0.6	1.0	1.6	2.9	4.7	6.8	1.3	0.9	2
	31086	15 Breadalbane											
		Toronto	103	0.1	0.2	0.3	0.5	0.7	1.3	1.4	0.4	0.3	NIL
	31099	Pal Electric											
		Pape Ave.	140	0.0	0.4	0.0	0.0		2.0	2.0	0.7	0.5	NIII
	21104	Toronto 26 Breadalbane	140	0.2	0.4	0.6	0.9	1.4	2.0	2.0	0.7	0.5	NIL
	31104	Toronto	229	0.1	0.3	0.4	0.6	0.9	1.6	2.3	0.5	0.3	NIL
	31105	Sherbourne/Wilton St.	220	0.,	0.0	0.4	0.0	0.0	1.0	2.0	0.0	•	,,,,_
		Toronto	119	0.3	0.4	0.6	0.8	1.2	1.8	2.1	0.7	0.6	NIL
	31120	Junction Triangle,											
		Perth Ave.											
		Toronto	80	0.1	0.2	0.4	0.5	0.7	1.2	1.3	0.4	0.3	NIL
	33003	Lawrence/Kennedy							ane.				***
	33019	Scarborough Met. Branch,	111	0.1	0.3	0.4	0.6	8.0	1.5	1.9	0.5	0.3	NIL
	33019	Scarborough Bluffs,											
		Scarborough	108	0.1	0.1	0.2	0.2	0.4	0.8	0.9	0.2	0.1	NIL
	34002	Science Centre	(3) B 36	10.00	2000	-	- N-W	500		1217	35.00m.	1.500	1.753345574
		770 Don Mills Rd.											
	92911927V-071	North York	117	0.1	0.2	0.3	0.4	0.7	1.4	1.9	0.3	0.2	NIL
	34007	Bathurst/Wilson		0.0	0.0			0.0	0.0	0.0		0.5	NIII
		North York	34	0.2	0.3	0.5	1.2	2.3	2.9	2.9	1.0	0.5	NIL

Table 19 - Continued . . .

													TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
CENTRAL	35003	Elmcrest Rd.			-								
CLIMITAL	55005	Etobicoke	102	0.1	0.2	0.3	0.5	0.9	1.8	2.6	0.4	0.2	NIL
	35033	Evans/Arnold	102		0.2	0.0	0.0	0.0		2.0	0.1	0.2	
	00000	Etobicoke	121	0.6	0.9	1.3	1.6	2.1	2.8	3.0	1.3	1.1	NIL
	35037	3050 Lakeshore Blvd. W.		0.0	0.0				2.0	0.0			
		Etobicoke	332	0.2	0.3	0.4	0.6	0.8	1.4	3.5	0.5	0.4	NIL
	44015	Bronte Rd./Woburn Cres.					35050		100.20.00				
		Oakville	112	0.1	0.2	0.2	0.4	0.6	1.0	2.0	0.3	0.2	NIL
	45025	Ritson Rd./Olive Ave.			0.2	0.2		0.0		2.0	0.0	0.2	
		Oshawa	117	0.1	0.1	0.3	0.5	0.8	1.1	1.1	0.3	0.2	NIL
	46045	2365 Dixie Rd.			0.1	0.0	0.0	0.0			0.0	0.2	
		Mississauga	339	0.2	0.6	0.9	1.6	2.9	6.6	9.3	1.4	0.8	10
	46046	2360 Dixie Rd.	000	0.2	0.0	0.0		2.0	0.0	0.0		0.0	.0
	10010	Mississauga	337	0.6	1.1	2.0	3.8	8.9	19.8	29.7	3.6	2.1	77
	46110	Queensway W./		0.0		2.0	0.0	0.0	. 0.0	20.,	0.0		5.5
		Hurontario St.											
		Mississauga	116	0.3	0.4	0.6	0.7	1.1	1.9	2.5	0.7	0.5	NIL
	59006	City Hall		0.0	0.4	0.0	0.7			2.0	0.7	0.0	
		500 George St.											
		Peterborough	114	0.1	0.2	0.3	0.4	0.6	1.5	1.6	0.3	0.2	NIL
SOUTH-	51001	McDonald Gdns											
EAST		Rideau/Wurtemburg St.											
		Ottawa	51	0.1	0.2	0.2	0.3	0.4	0.8	1.3	0.2	0.2	NIL
	56051	Memorial Park	0.000		3000	10000	1207	1925	1000	%0 <del>8</del>	500		0.31070
		York/Third St.											
		Cornwall	56	0.1	0.1	0.2	0.3	0.5	1.5	1.7	0.3	0.1	NIL
NORTH-	63022	Hospital											
WEST		35 Algoma St. N.											
		Thunder Bay	14	0.1	0.2	0.2	0.4	0.5	0.7	0.7	0.3	0.2	NIL
	63040	435 James St. S.						-					
		Thunder Bay	54	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.1	0.1	NIL
NORTH-	71022	Sault College,											
EAST	di distributioni	Queen St.											
		Sault Ste. Marie	35	0.1	0.1	0.1	0.3	0.4	0.6	0.6	0.2	0.1	NIL
	77016	Ash Street	V.ECC	02000	Access (I)	(musical)	væsem.A	owner.	1500 miles	12000	10/20/22/20	000000	110E N-75
		Water Tank											
		Sudbury	56	0.1	0.1	0.2	0.3	0.4	0.9	1.1	0.2	0.1	NIL
	77026	19 Lisgar St.	50.000 000		arrand)				ness som?				
		Sudbury	44	0.1	0.2	0.3	0.4	0.6	1.1	1.2	0.3	0.2	NIL

Table 20 Summary of Data: Lead in Total Suspended Particulate Matter-Atomic Absorption (all values in micrograms per cubic meter) Ontario Criterion - 24-Hour average: 5.0 ug/m<sup>3</sup>

	STATION		NO. OF			PERCE	NTILES	;		MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
SOUTH- WEST	12005	7730 Riverside Dr. W. Windsor	60	0.1	0.1	0.2	0.3	0.3	1.2	2.6	0.3	0.2	NIL
	12010	Tecumseh Sew. Stn. Manning Rd.											
	12013	Windsor Filtration Plant 3665 Wyandotte St. E.	58	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.2	0.2	NIL
	2221	Windsor	53	0.1	0.2	0.2	0.3	0.4	0.9	1.2	0.3	0.2	NIL
	12014	College/Calif. St. Windsor	49	0.2	0.3	0.4	0.5	1.0	1.5	1.7	0.5	0.4	NIL
	12015	Hwy 18/Prospect Windsor	54	0.2	0.2	0.2	0.3	0.4	0.7	1.4	0.3	0.2	NIL
	13003	Post Office 10 Centre St.		0.2	5.2	0.0	0.0			10.00		0.2	
	13022	Chatham RR #3, NNW of House	43	0.1	0.2	0.2	0.3	0.3	0.5	0.5	0.2	0.2	NIL
		Blenheim	26	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	NIL

Table 20 - Continued . . .

			12020 1202										TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
SOUTH-	13023	RR #1, Behind the Barn											
WEST		Blenheim	54	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	NIL
	13024	Jackson Farm											
		Blenheim	52	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	NIL
	13025	RR#2, Behind the Barn						180771081					
		Merlin	47	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	NIL
	14001	General Hospital 220 Minton St.											
		Sarnia	54	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.1	NIL
	14016	Opposite Lambton G.S.	34	0.1	0.1	0.2	0.2	0.2	0.5	0.4	0.2	0.1	1412
	14010	Hwy 40											
		Courtright	124	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1	NIL
	14030	RR#1, West of House											
		Corunna	58	0.1	0.1	0.1	0.1	0.2	0.5	1.4	0.1	0.1	NIL
	14031	RR#1, West side of Barn											
		Mooretown	58	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	NIL
WEST-	28024	95 Inkerman St.											
CENTRAL		Guelph	51	0.1	0.1	0.2	0.2	0.4	1.8	2.3	0.3	0.2	NIL
	29001	Hughson/Hunter											
		Hamilton	58	.02	.02	.04	.05	.08	1.0	1.2	0.4	0.4	NIL
	29011	Burlington/Leeds	co	0.0	0.2	0.5	0.0	0.0		1.0	0.5	0.5	NIL
	29012	Hamilton	69	0.2	0.3	0.5	0.6	0.9	1.3	1.3	0.5	0.5	NIL
	29012	Burlington/Wellington Hamilton	68	0.1	0.2	0.2	0.3	0.5	0.8	0.9	0.3	0.2	NIL
	29067	450 Hughson St. N.	00	0.1	0.2	0.2	0.0	0.0	0.0	0.5	0.0	0.2	, v. L
	2000,	Hamilton	58	0.1	0.2	0.2	0.4	0.6	1.3	1.5	0.3	0.3	NIL
	29085	Upper Wellington/											
		Inverness											
		Hamilton	55	0.1	0.2	0.3	0.5	0.8	1.2	1.3	0.4	0.3	NIL
CENTRAL	46025	Mississauga Public Librar	у										
		Mississauga	54	0.2	0.3	0.4	0.6	0.8	1.2	1.5	0.5	0.4	NIL
NORTH-	63005	Hospital											
WEST		Archibald/Arthur											
		Thunder Bay	59	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.2	0.2	NIL
	63022	Hospital											
		35 Algoma St. N.	44	0.1	0.2	0.2	0.2	0.4	0.6	0.6	0.2	0.2	NIL
		Thunder Bay	44	0.1	0.2	0.2	0.2	0.4	0.6	0.6	0.2	0.2	INIL
NORTH-	71042	Bonney St. Pumphouse				0.6	0.0		0.7	0.7		0.0	KIII
EAST	71049	Sault Ste. Marie	47	0.1	0.1	0.2	0.3	0.4	0.7	0.7	0.2	0.2	NIL
	/1049	Land Reg. Office Queen St.											
		Sault Ste. Marie	47	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.2	0.2	NIL
	75010	OPP Station	7.6	0.1	V-2	0.2	0.0	0.7	0.0	0.0	0.2	W-16-	
		North Bay	41	0.1	0.1	0.2	0.2	0.5	0.7	0.8	0.2	0.2	NIL
	77070	Nickel St. Pump House											
		Copper Cliff	48	0.1	0.1	0.2	0.2	0.4	0.7	0.7	0.2	0.1	NIL

Table 21 Summary of Data: Iron in Total Suspended Particulate Matter (all values in micrograms per cubic meter)

No Existing Criterion

	STATION		NO. OF			PERCE	NTILES	3		MAX.	ARITH.	GEOM.
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN
SOUTH- WEST	12002	City Hall 44 Windsor Ave.										
	12005	Windsor 7730 Riverside Dr. W.	55	0.6	1.0	1.4	2.0	3.6	6.1	6.9	1.8	1.4
		Windsor	60	0.3	0.7	0.8	1.0	1.9	6.3	13.0	1.2	0.8
	12008	467 University Ave. W. Windsor	307	0.5	0.9	1.3	1.9	3.0	5.5	7.2	1.6	1.3
	12010	Tecumseh Sewage Stn. Manning Rd.										
		Windsor	58	0.1	0.5	0.6	0.8	1.0	2.7	4.7	0.7	0.4

Table 21 - Continued . . .

	STATION		NO. OF			PERCE	NTILE	S		MAX.	ARITH.	GEOM.
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN
SOUTH-	12013	Filtration Plant										
WEST	12010	3665 Wyandotte St. E.										
		Windsor	56	0.4	1.0	1.4	2.0	3.7	5.9	6.4	1.8	1.4
	12014	University Met. Stn.										
		College/Calif. St. Windsor	54	0.7	1.1	1.6	2.4	3.3	5.5	6.8	1.9	1.6
	12015	Sewage Plant	34	0.7	hotels.	1.0	2.4	3.3	5.5	0.0	1.9	1.0
	CONTRACTOR	Hwy 18/Prospect										
		Windsor	54	0.9	1.4	1.9	3.3	4.7	5.6	5.8	2.5	2.0
	12032	Morton Dock										
		Bedford/Ojibway Windsor	57	0.2	0.5	1.0	1.6	2.9	7.3	8.2	1.5	0.9
	12039	Dougall/E.C. Rowe W.	37	0.2	0.0	1.0	1.0	2.0	7.5	0.2	11.5	0.5
		Windsor	59	.02	.09	1.2	1.9	3.6	9.4	10.4	1.8	1.2
	13003	Post Office										
		10 Center St.			0.7	0.0					121.2	
	13022	Chatham RR #3	43	0.3	0.7	0.9	1.2	2.0	4.2	5.4	1.1	0.8
	10022	NNW of House										
		Blenheim	23	0.3	0.8	1.3	1.9	4.3	9.4	10.3	2.1	1.3
	13023	RR #1										
		Behind the Barn		0.0		0.7		part e-	0.7	2.0	0.0	0.0
	13024	Blenheim Jackson Farm	49	0.2	0.4	0.7	1.1	1.5	3.7	3.9	0.9	0.6
	10024	Blenheim	47	0.2	0.4	0.5	0.8	1.5	2.1	2.2	0.7	0.5
	13025	RR #2	13		5579.3	16050	235	1011-201	:510)	7.00	(프겠던)	
		Behind the Barn	700744	1920/000	0.000 (644)	1774 - 1877	80.752581		2000000	100,000		
	14001	Merlin	42	0.1	0.2	0.4	8.0	1.1	2.9	3.5	0.6	0.4
	14001	General Hospital 220 Minton St.										
		Sarnia	54	0.2	0.3	0.4	0.7	1.3	2.2	2.6	0.7	0.5
	14016	Opposite Lambton GS									200-100 I	17-18-2-18-71
		Hwy 40										
	1.4000	Courtright	124	0.1	0.3	0.4	0.7	1.2	1.7	2.6	0.6	0.4
	14030	RR #1 West of the House										
		Corunna	58	0.1	0.2	0.3	0.6	1.7	3.7	4.5	0.7	0.4
	14031	RR #1		2011	0.2	0.0	0.0	1000	0.1		<b>9.</b> ,	0
		West side of Barn										
	14004	Mooretown	58	0.1	0.2	0.4	0.7	1.1	2.2	2.6	0.6	0.4
	14064	Centennial Park Front St./CN Tracks										
		Sarnia	57	0.3	0.4	0.6	0.8	1.1	1.8	2.3	0.7	0.6
	15001	Western Fair Grounds										
		King/Rectory					g				(4///)	
		London	53	0.2	0.5	0.8	1.1	2.0	3.0	3.1	1.0	0.7
VEST-	28024	95 Inkerman St.										
ENTRAL	READ.	Guelph	54	.03	.05	.08	1.2	2.4	5.4	5.5	1.2	0.8
	29001	Hughson/Hunter										
	20000	Hamilton North Park	56	0.3	0.6	1.4	2.6	7.2	13.1	15.2	2.7	1.4
	29008	North Park Hamilton	324	0.7	1.5	2.7	53	11.0	17 8	22.3	4.5	2.7
	29011	Burlington/Leeds	524	0.7	1.3	2.1	5.5	11.0	17.0	22.0	4.5	2.1
		Hamilton	69	1.2	2.6	4.3	5.8	17.4	30.8	31.2	6.9	4.5
	29012	Burlington/Wellington										
	20017	Hamilton Chatham (Frid	68	0.6	1.0	1.5	2.0	4.5	8.0	8.7	2.0	1.5
	29017	Chatham/Frid Hamilton	57	0.8	1.1	1.7	3.0	7.5	21.9	28.1	3.4	2.0
	29025	Barton/Wentworth	31	0.0	1.1	1.1	3.0	7.5	21.9	20.1	3.4	2.0
		Hamilton	317	0.7	1.3	2.3	3.5	7.7	22.0	32.9	3.6	2.3
	29067	450 Hughson St. N.	ē ģenies	10000								
	20005	Hamilton	58	.03	.08	1.3	2.2	4.6	8.5	9.7	2.1	1.3
	29085	Upper Wellington/ Inverness										
		Hamilton	55	0.3	0.5	1.1	2.4	6.1	12.2	14.6	2.3	1.2
CENTRAL	31018	35 Bathurst St.	00-		ANDRES			genra-			gg orac	ogovan.
	31058	Toronto Mosley/Leslie St.	300	8.0	1.4	2.0	2.7	4.5	6.4	7.7	2.3	1.9
	31036	Toronto	344	0.6	1.1	1.7	2.3	3.8	6.3	16.2	2.0	1.5
			2011	0.0	100000	0.55	0	5.0	0.0		2.0	

Table 21 - Continued . . .

	STATION		NO. OF			PERCE	NTILES	S		MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
CENTRAL	31104	26 Breadalbane											
		Toronto	232	0.4	0.7	0.9	1.3	2.2	4.0	10.8	1.2	0.9	
	33003	Lawrence/Kennedy											
		Scarborough	103	0.3	0.5	0.6	0.9	1.3	2.2	3.4	0.8	0.6	
	34002	Science Centre											
		770 Don Mills Rd.											
		North York	112	0.2	0.4	0.5	0.6	1.3	1.8	2.2	0.6	0.5	
	35033	Evans/Arnold Ave.											
		Etobicoke	119	0.6	0.9	1.1	1.5	2.3	3.3	3.8	1.3	1.1	
	45001	Pickering Fire Hall											
		Pickering	290	0.2	0.4	0.6	0.9	1.4	2.4	3.6	0.7	0.5	
	46025	Mississauga Public Library											
		Mississauga	54	0.4	0.8	1.4	1.9	3.1	3.8	4.1	1.5	1.2	
	59006	City Hall											
		500 George St.											
		Peterborough	96	0.2	0.3	0.5	1.2	7.0	18.0	19.0	2.3	0.8	
NORTH-	63005	Hospital											
WEST		Archibald/Arthur St.											
		Thunder Bay	53	0.1	0.9	1.6	2.3	4.1	7.1	8.8	2.0	1.0	
	63022	Hospital											
		35 Algoma St.											
		Thunder Bay	58	0.4	8.0	1.1	1.9	3.7	6.7	8.4	1.7	1.2	
NORTH-	71022	Sault College											
EAST		Queen St.											
		Sault Ste. Marie	35	0.4	2.2	3.8	5.8	10.1	14.6	14.8	4.6	2.3	
	71042	Bonney St. Pumphouse											
		Sault Ste. Marie	39	0.7	2.0	4.1	8.3	14.4	26.8	28.1	6.4	2.8	
	71049	Land Reg. Office											
		Queen St.											
		Sault Ste. Marie	47	0.5	0.8	1.1	2.0	4.4	5.8	5.8	1.8	1.2	
	75010	OPP Station											
		North Bay	41	0.1	0.3	0.5	1.0	1.5	2.5	3.0	0.7	0.4	
	77016	Ash Street Water Tank											
		Sudbury	56	0.4	0.6	0.9	1.6	2.5	3.4	3.7	1.2	1.0	
	77026	19 Lisgar St.											
		Sudbury	44	0.4	0.8	0.9	1.2	2.0	5.8	7.9	1.3	1.0	
	77070	Nickel St. Pump House											
		Copper Cliff	48	0.6	1.1	1.7	2.7	6.3	8.8	9.2	2.4	1.5	
	77076	Post Office											
		Falconbridge	47	0.2	0.4	0.6	1.0	1.8	3.4	4.5	0.9	0.6	

Table 22 Summary of Data: Nickel in Total Suspended Particulate (all values in micrograms per cubic meter)

Ontario Criterion - 24-Hour average: 2.0 ug/m³

	STATION		NO. OF			PERCE	NTILES	:		MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
SOUTH- WEST	12002	City Hall 44 Windsor Ave.	F.F.	001	004	007	010	005	050	070	011	205	NUL
	12005	Windsor 7730 Riverside Dr. W. Windsor	55 59	.001	.004	.007	.012	.025	.052	.070	.011	.005	NIL NIL
	12008	467 University Ave. W. Windsor	296	.001	.004	.006	.010	.018	.027	.041	.008	.005	NIL
	12010	Tecumseh Sewage Stn. Manning Rd. Windsor	58	.001	.001	.001	.003	.004	.014	.017	.002	.001	NIL
	12013	Filtration Plant 3665 Wyandotte St. E.	36	.001	.001	.001	.003	.004	.014	.017	.002	.001	NIL
	12014	Windsor University Met. Stn.	53	.001	.001	.003	.005	.009	.016	.017	.004	.001	NIL
	12015	College/Calif. St. Windsor Sewage Plant	49	.001	.001	.007	.010	.025	.067	.094	.010	.003	NIL
	SEE UK	Hwy 18/Prospect Windsor	54	.001	.003	.005	.008	.014	.036	.047	.007	.003	NIL

Table 22 - Continued . . .

	07471011		NO 05			DEC 0-						05011	TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
SOUTH-	13003	Post Office											
WEST		10 Center St.											
	40000	Chatham	43	.001	.001	.002	.002	.006	.009	.010	.002	.001	NIL
	13022	RR #3 NNW of House											
		Blenheim	26	.001	.001	.002	.005	.008	.013	.014	.004	.001	NIL
	13023	RR #1	77.7		100000	10.55	15.55	1000		570000			1.50
		Behind the Barn											
	12021	Blenheim	54	.001	.001	.001	.003	.005	.015	.029	.002	.001	NIL
	13024	Jackson Farm Blenheim	52	.001	.001	.001	.003	.005	.020	.031	.003	.001	NIL
	13025	RR #2	32	.001	.001	.001	.003	.003	.020	.031	.003	.001	MIL
		Behind the Barn											
	11 1 mg 194 + carr 1 m	Merlin	47	.001	.001	.002	.003	.005	.008	.008	.002	.001	NIL
	14001	General Hospital											
		220 Minton St. Sarnia	5.4	.001	001	003	006	015	057	064	008	002	NIII
	14016	Opposite Lambton G.S.	54	.001	.001	.003	.006	.015	.057	.064	.008	.002	NIL
	. 10.10	Hwy 40											
		Courtright	124	.001	.002	.003	.006	.011	.042	.045	.005	.003	NIL
	14030	RR #1											
		West of the House	5.6	001	001	000	004	000	000	024	004	001	NIII
	14031	Corunna RR #1	56	.001	.001	.002	.004	.008	.022	.034	.004	.001	NIL
	14001	West side of Barn											
		Mooretown	58	.001	.001	.002	.004	.009	.018	.020	.004	.002	NIL
	14064	Centennial Park											
		Front St./CN Tracks								222	222		2000
	15001	Sarnia Western Fair Grounds	57	.001	.002	.004	.006	.027	.054	.056	.008	.002	NIL
	15001	Western Fair Grounds King/Rectory											
		London	53	.001	.001	.002	.003	.005	.012	.014	.002	.001	NIL
WEST-	27030	Killaly E./James						-			2000		ACADCA II
CENTRAL	27047	Port Colborne Davis/Frazer	58	.029	.049	.089	.218	.403	1.197	1.390	.194	.102	NIL
	27047	Port Colborne	58	.018	.024	.063	.146	850	2.897	3.430	.312	.082	2
	28024	95 Inkerman St.	00	.010	.024	.000	.140	.000	2.007	0.400	.012	.002	-
		Guelph	54	.001	.002	.003	.005	.012	.092	.142	.008	.003	NIL
	29001	Hughson/Hunter	1000	35252									
	20000	Hamilton	58	.001	.001	.003	.007	.015	.026	.038	.006	.002	NIL
	29008	North Park Hamilton	325	.001	.004	.006	.009	.019	.033	.048	.008	.005	NIL
	29011	Burlington/Leeds	323	.001	.004	.000	.009	.015	.033	.040	.000	.005	NIL
		Hamilton	69	.003	.005	.008	.012	.018	.024	.028	.009	.007	NIL
	29012	Burlington/Wellington											
		Hamilton	68	.001	.003	.005	.007	.011	.019	.026	.006	.003	NIL
	29017	Chatham/Frid Hamilton	57	.001	.003	.005	.009	.023	.044	.055	.009	.004	NIL
	29025	Barton/Wentworth	57	.001	.003	.005	.009	.023	.044	.055	.009	.004	NIL
		Hamilton	317	.002	.005	.007	.011	.020	.039	.051	.010	.006	NIL
	29067	450 Hughson St. N.											
		Hamilton	58	.001	.001	.004	.009	.014	.030	.053	.006	.002	NIL
	29085	Upper Wellington/ Inverness											
		Hamilton	55	.001	.001	002	.006	013	.023	.023	.005	.001	NIL
			-			.002	.000		.020	.020	.000		
CENTRAL	31058	Mosley/Leslie St.											
		Toronto	344	.001	.005	.007	.011	.016	.025	.038	.008	.005	NIL
	33003	Lawrence/Kennedy											
	24002	Scarborough	92	.001	.001	.001	.003	.007	.041	.110	.004	.001	NIL
	34002	Science Centre 770 Don Mills Rd.											
		North York	112	.001	.001	.004	.005	.008	.012	.018	.004	.002	NIL
	35003	Elmcrest Ave.	1.0.5	.551	.551	.554	.500	.500	.512	.010	.004	.002	
		Etobicoke	37	.001	.002	.004	.006	.009	.012	.013	.004	.002	NIL
	35033	Evans/Arnold Ave.											
	35037	Etobicoke 3050 Lakeshore Blvd. W.	119	.001	.004	.005	.007	.012	.026	.036	.006	.003	NIL
	33037	Etobicoke	99	.003	.006	.009	012	023	.176	.239	.017	.008	NIL
	45001	Pickering Fire Hall	50			.000	.0.12	.020		.200	.017	.000	
		Pickering	290	.001	.001	.002	.003	.006	.010	.013	.002	.001	NIL

Table 22 - Continued . . .

	STATION		NO. OF			PERCE	NTILES			MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
CENTRAL	46025	Mississauga Public Library			10. 30.00				1000000				
		Mississauga	54	.001	.001	.003	.005	.008	.018	.025	.004	.002	NIL
	59006	City Hall											
		500 George St.											
		Peterborough	104	.001	.001	.001	.003	.005	.009	.010	.002	.001	NIL
NORTH-	63005	Hospital											
WEST		Archibald/Arthur St.											
		Thunder Bay	59	.001	.001	.001	.002	.008	.013	.013	.002	.001	NIL
	63022	Hospital											
		35 Algoma St.											
		Thunder Bay	58	.001	.001	.001	.002	.005	.017	.031	.002	.001	NIL
NORTH-	71022	Sault College											
EAST		Queens St.											
		Sault Ste. Marie	35	.001	.001	.001	.003	.007	.012	.014	.003	.001	NIL
	71049	Land Reg. Office											
		Queen St.											
		Sault Ste. Marie	47	.001	.001	.002	.004	.006	.010	.011	.002	.001	NIL
	75010	OPP Station											
		North Bay	41	.001	.001	.001	.004	.007	.009	.010	.002	.001	NIL
	77016	Ash Street											
		Water Tank											
		Sudbury	53	.015	.044	.055	.120	.206	.380	.380	.096	.060	NIL
	77026	19 Lisgar St.											
		Sudbury	42	.020	.029	.053	.081	.157	.345	.460	.074	.051	NIL
	77070	Nickel St. Pump House											
		Copper Cliff	48	.096	.162	.288	.329	.582	1.200	1.502	.318	.240	NIL
	77076	Post Office											
	A-170/W-00/W-0	Falconbridge	46	.006	.023	.031	.081	.123	.175	.210	.055	.030	NIL

Table 23 Summary of Data: Copper in Total Suspended Particulate (all values in micrograms per cubic meter)

Ontario Criterion – 24-Hour average: 50.0 ug/m<sup>3</sup>

													TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
SOUTH-	12002	City Hall											
WEST		44 Windsor Ave.											
		Windsor	55	.01	.01	.02	.03	.07	.18	.20	.03	.02	NIL
	12005	7730 Riverside Dr. W.											
		Windsor	57	.02	.03	.04	.05	.12	.27	.27	.06	.04	NIL
	12008	467 University Ave. W.											
		Windsor	307	.03	.05	.08	.16	.40	.75	.82	.15	.09	NIL
	12010	Tecumseh Sewage Stn.											
		Manning Road											
		Windsor	58	.01	.06	.10	.15	.57	1.16	1.21	.20	.07	NIL
	12013	Filtration Plant											
		3665 Wyandotte St. E.											
		Windsor	53	.06	.11	.14	.16	.23	.28	.31	.14	.13	NIL
	12014	University Met. Stn.											
		College/Calif. St.											
		Windsor	49	.06	.08	.11	.19	.25	.33	.33	.15	.12	NIL
	12015	Sewage Plant											
		Hwy 18/Prospect											
		Windsor	54	.07	.11	.13	.15	.19	.27	.29	.13	.12	NIL
	13003	Post Office											
		10 Center St.											
		Chatham	43	.05	.08	.10	.13	.21	.66	1.10	.14	.10	NIL
	13022	RR #3											
		NNW of House											
		Blenheim	26	.03	.05	.08	.14	.28	.47	.49	.13	.09	NIL
	13023	BR #1		(1000)			12/0/20		4(5)5)	11 (1990)	1.77	144	0.000.000
		Behind the Barn											
		Blenheim	54	.02	.06	.09	.11	.17	.26	.26	.10	.07	NIL
		Dietitietiti	34	.02	.00	.09	4.1	133	.20	.20	.10	.07	1916

Table 23 - Continued . . .

													TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
SOUTH-	13024	Jackson Farm	Service State of Stat	100,000									
WEST	10024	Blenheim	52	.03	.06	.09	.15	.18	.32	.52	.11	.09	NIL
	13025	RR #2		200000	100.00					.02		.00	
		Behind the Barn											
	1272.000	Merlin	47	.02	.07	.08	.12	.17	.26	.26	.09	.07	NIL
	14001	General Hospital 220 Minton St.											
		Sarnia	54	.05	.07	.09	.15	.22	.28	.29	10	10	NIII
	14016	Opposite Lambton GS	54	.03	.07	.09	.15	.22	.20	.29	.12	.10	NIL
		Hwy 40											
		Courtright	124	.02	.09	.16	.21	.38	.84	1.59	.19	.12	NIL
	14030	RR #1											
		West of the House			10.020								
	14031	Corunna RR #1	58	.07	.12	.14	.19	.31	.49	.56	.17	.14	NIL
	14031	West side of Barn											
		Mooretown	58	.06	.09	.12	.14	.24	.62	.95	.15	.12	NIL
	14064	Centennial Park							.02	.55	.15	.12	IVIC
		Front St./CN Tracks											
		Sarnia	57	.07	.08	.11	.15	.36	.84	.86	.17	.13	NIL
	15001	Western Fair Grounds											
		King/Rectory London	53	.16	.23	24	20	50	7.	70			
		London	53	.16	.23	.34	.38	.52	.71	.72	.33	.30	NIL
WEST-	28024	95 Inkerman St.											
CENTRAL		Guelph	54	.10	.16	.21	.33	.53	.89	.95	.28	.23	NIL
	29001	Hughson/Hunter											t
	400444	Hamilton	58	.03	.07	.13	.18	.24	.37	.38	.14	.10	NIL
	29008	North Park	005			100	21021	_					
	29011	Hamilton Burlington/Leeds	325	.04	.08	.12	.19	.28	.58	.88	.15	.11	NIL
	29011	Hamilton	69	.12	.18	.27	.32	.48	.71	.83	.29	25	NIII
	29012	Burlington/Wellington	03	.12	.10	.21	.52	.40	JF 1	.03	.29	.25	NIL
		Hamilton	68	.08	.12	.15	.23	.56	.91	1.29	.24	.17	NIL
	29017	Chatham/Frid											
		Hamilton	57	.06	.07	.08	.12	.18	.28	.32	.11	.09	NIL
	29025	Barton/Wentworth	047	00							-	Towns and the	E-MANAGE I
	29067	Hamilton 450 Hughson St. N.	317	.09	.17	.22	.32	.46	1.06	1.30	.27	.22	NIL
	23001	Hamilton	58	.06	.09	.13	.19	.25	.43	.43	.16	.13	NIL
	29085	Upper Wellington/			.00			.20	.40	.45	.10	.13	NIL
		Inverness											
		Hamilton	55	.05	.10	.16	.19	.29	.36	.41	.16	.13	NIL
CENTRAL	31058	Mosley/Leslie St.	Page 1000	-5.124									
	24404	Toronto	344	.06	.08	.11	.15	.19	.31	.67	.12	.11	NIL
	31104	26 Breadalbane Toronto	229	0.4	06	00		0.7	56	00			
	33003	Lawrence/Kennedy	229	.04	.06	.09	.15	.27	.56	.82	.13	.11	NIL
	00000	Toronto	92	.04	.06	.09	.12	.16	.22	.41	.10	.08	NIL
	34002	Science Centre	2.7		.00	.00						.00	1412
		770 Don Mills Rd.											
	manacapopolari	North York	112	.05	.08	.10	.19	.26	.33	.35	.14	.11	NIL
	35003	Elmcrest Rd.	22	72/12/1	-	=01	0.0000	805	8.8				
	35033	Etobicoke Evans/Arnold Ave.	37	.01	.02	.04	.08	.10	.16	.16	.05	.04	NIL
	35033	Etobicoke	119	.08	.14	.23	.37	.67	1.02	1.14	.31	22	NIL
	35037	3050 Lakeshore Blvd. W.	1.13	.00	. 1.54	.25	.57	.07	1.02	1.14	.51	.23	INIL
		Etobicoke	99	.16	.26	.33	.44	.65	1.35	1.55	.39	.33	NIL
	45001	Pickering Fire Hall											
		Pickering	290	.07	.15	.25	.45	.80	1.81	2.10	.37	.24	NIL
	46025	Mississauga Public Library		10	0.5	0.5				. ~.			
	59006	MIssissauga City Hall	54	.19	.25	.35	.56	.94	1.51	1.71	.48	.37	NIL
	55500	500 George St.											
		Peterborough	104	.10	.14	.17	.22	.29	.33	.42	.19	.17	NIL
		: #1367/61887 <b>5</b> -7 <b>.₹</b> 18	1710 <del>7</del> 65	- rate#s	767.05	12/21(E)		0	.00				
NORTH-	63005	Hospital											
WEST		Archibald/Arthur St.				100				Laborate Maria			
	62000	Thunder Bay	59	.06	.08	.10	.13	.19	.85	1.02	.15	.11	NIL
	63022	Hospital 35 Algoma St.											
		Thunder Bay	58	.08	.14	.17	.21	.38	.99	1.00	22	17	NIII
		. number bay	30	.00	.14	. 17	.21	.58	.99	1.00	.22	.17	NIL

Table 23 - Continued . . .

	STATION		NO. OF			PERCE	NTII EG	2		MAX.	ARITH.	GEOM.	TIMES ABOVE
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
NORTH-	71022	Sault College											
EAST		Queen St.											
		Sault Ste. Marie	35	.19	.35	.40	.57	.91	1.26	1.38	.50	.38	NIL
	71042	Bonney St. Pumphouse											
		Sault Ste. Marie	47	.06	.11	.20	.35	.70	1.17	1.41	.30	.18	NIL
	71049	Land Reg. Office,											
		Queen St.											
		Sault Ste. Marie	47	.09	.19	.23	.32	.39	.50	.51	.25	.20	NIL
	75010	OPP Station											
		North Bay	41	.21	.27	.41	.55	.87	1.53	1.70	.49	.40	NIL
	77016	Ash Street											
		Water Tank											
		Sudbury	56	.08	.15	.23	.37	.66	1.23	1.50	.33	.24	NIL
	77026	19 Lisgar St.											
		Sudbury	44	.14	.22	.28	.39	.51	.75	.80	.32	.27	NIL
	77076	Post Office											
		Falconbridge	47	.10	.23	.30	.44	.80	1.15	1.30	.40	.31	NIL

Table 24 Summary of Data: Cadmium in Total Suspended Particulate (all values in micrograms per cubic meter) Ontario Criterion - 24-Hour average: 2.0 ug/m<sup>3</sup>

TIMES ABOVE STATION NO. OF **PERCENTILES** MAX. ARITH. GEOM. CRITERION REGION NUMBER LOCATION SAMPLES 10 30 90 99 CONC. MEAN MEAN 24-HR. 50 70 City Hall SOUTH-12002 WEST 44 Windsor Ave. Windsor 55 001 .001 .001 .003 .006 .021 .024 .003 .001 NIL 12005 7730 Riverside Dr. W. .004 .003 NIL Windsor 60 .001 .002 .003 .004 .006 .020 .035 12008 467 Univeristy Ave. W. Windsor 307 .001 .001 .002 .003 .007 .021 .042 .003 .002 NIL 12010 Tecumseh Sewage Stn. Manning Rd. Windsor .001 .001 .001 .002 .003 .005 .008 .002 .001 NIL Filtration Plant 12013 3665 Wyandotte St. E. .001 .002 .003 .005 .009 .011 .002 .002 NIL Windsor 53 .001 12014 University Met. Stn. College/Calif. St. NIL Windsor 49 .001 .001 .002 .004 .007 .010 .010 .003 .002 Sewage Plant 12015 Hwy 18/Prospect .004 .002 NIL Windsor 54 .001 .001 .002 .004 .009 .019 .022 13003 Post Office 10 Center St. Chatham 43 .001 .001 .001 .001 .001 001 002 .001 .001 NIL 13022 RR #3 NNW of House Blenheim 26 .001 .001 .001 .001 .0001 .001 .001 .000 .000 NIL 13023 **RR #1** Behind the Barn Blenheim 54 .001 .001 .001 .001 .001 .002 .002 .001 .000 NIL 13024 Jackson Farm .001 NII Blenheim 52 .001 .001 .001 .001 .001 .002 .002 .001 13025 **RR #2** Behind the Barn Merlin 47 .001 .001 .001 .001 .001 .002 .002 .001 .001 NIL 14001 General Hospital 220 Minton St. Sarnia .001 .001 .001 .001 .001 .003 .003 .001 .001 NIL 14016 Opposite Lambton GS Hwy 40 .001 .001 NIL Courtright 124 .001 .001 .001 .001 .002 .004 .004 14030 **RR #1** West of the House 58 .001 .001 .001 .001 .002 .008 .009 .001 .001 NIL

Corunna

Table 24 - Continued . . .

	STATION		NO. OF			PERCE	NTILES	\$		MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
SOUTH-	14031	RR #1											
WEST		West side of Barn											
	14064	Mooretown	58	.001	.001	.001	.001	.002	.002	.003	.001	.001	NIL
	14064	Centennial Park Front St./CN Tracks											
		Sarnia	57	.001	.001	.001	.001	.002	.003	.004	.001	.001	NIL
	15001	Western Fair Grounds	500			000000000000000000000000000000000000000							
		King/Rectory											
		London	53	.001	.001	.001	.001	.004	.008	.009	.001	.001	NIL
WEST-	29001	Hughson/Hunter											
CENTRAL	29001	Hamilton	58	.001	.001	.001	.001	.003	.005	.006	.001	.001	NIL
	29008	North Park	00	.001		.00	.001	.000	.000	.000	.001	.001	
		Hamilton	325	.001	.001	.001	.001	.002	.005	.009	.001	.001	NIL
	29011	Burlington/Leeds											
	22242	Hamilton	69	.001	.001	.001	.002.	.005	.007	.011	.002	.001	NIL
	29012	Burlington/Wellington Hamilton	68	.001	.001	001	001	000	006	007	001	001	NIII
	29017	Chatham/Frid	00	.001	.001	.001	.001	.002	.006	.007	.001	.001	NIL
		Hamilton	57	.001	.001	.001	.001	.003	.006	.007	.001	.001	NIL
	29025	Barton/Wentworth											
		Hamilton	317	.001	.001	.001	.002	.004	.016	.023	.002	.001	NIL
	29067	450 Hughson St. N.											
	29085	Hamilton	58	.001	.001	.001	.002	.003	.007	.008	.002	.001	NIL
	29005	Upper Wellington/ Inverness											
		Hamilton	55	.001	.001	.001	.001	.003	.004	.004	.001	.001	NIL
				070733	(P.E. 15.) (A)	147070 (MISSE)		sa mas	10.750m (I)	31.75.25.11	15001	37.7	
CENTRAL	31018	35 Bathurst St.											
	21050	Toronto	300	.001	.002	.003	.004	.008	.018	.022	.004	.002	NIL
	31058	Mosley/Leslie St. Toronto	344	.001	.002	.003	.005	.009	.021	.041	.004	.003	NIL
	31064	17 Berkshire Ave.	544	.001	.002	.003	.003	.009	.021	.041	.004	.003	NIL
		Toronto	297	.001	.001	.002	.004	.008	.020	.110	.004	.002	NIL
	31065	633 Eastern Ave.											
	24000	Toronto	307	.001	.002	.003	.004	.009	.019	.027	.004	.002	NIL
	31099	Pal Elec. Pape Ave.											
		Toronto	140	.001	.001	.003	.005	.009	.019	.024	.004	.002	NIL
	33003	Lawrence/Kennedy	140	.001	.001	.000	.005	.003	.013	.024	.004	.002	MIL
		Toronto	92	.001	.001	.001	.001	.002	.004	.004	.001	.001	NIL
	34002	Science Centre											
		770 Don Mills Rd.											****
	35003	North York Elmcrest Rd.	112	.001	.001	.001	.002	.002	.004	.005	.001	.001	NIL
	55005	Etobicoke	37	.001	.001	.001	.001	.002	.005	.005	.001	.001	NIL
	35033	Evans/Arnold Ave.					1555			.000		.00	
		Etobicoke	119	.001	.002	.002	.003	.004	.006	.007	.002	.002	NIL
	35037	3050 Lakeshore Blvd. W.	000										
	45001	Etobicoke Pickering Fire Hall	266	.001	.003	.005	.013	.053	.140	.384	.018	.006	NIL
	40001	Pickering	290	.001	.001	.001	.001	.002	.005	.012	.001	.001	NIL
	46025	Mississauga Public Library							.000	.0 .2	.001	.001	
		Mississauga	54	.001	.001	.001	.001	.003	.005	.006	.001	.001	NIL
	59006	City Hall											
		500 George St.	104	004	004	004	004	000	000	001	001		****
		Peterborough	104	.001	.001	.001	.001	.002	.003	.004	.001	.000	NIL
NORTH-	63005	Hospital											
WEST	147, 5,50	Archibald/Arthur St.											
		Thunder Bay	59	.001	.001	.001	.001	.001	.001	.001	.000	.000	NIL
	63022	Hospital											
		35 Algoma St.	50	004	004	004	001	004	000	000	001	000	****
		Thunder Bay	58	.001	.001	.001	.001	.001	.002	.002	.001	.000	NIL

Table 25 Summary of Data: Chromium in Total Suspended Particulate (all values in micrograms per cubic meter)

Ontario Criterion – 24-Hour average: 1.5 ug/m<sup>3</sup>

			1.2.22					21					TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
SOUTH-	12005	7730 Riverside Dr. W.											
WEST		Windsor	59	.001	.001	.003	.004	.008	.026	.030	.004	.002	NIL
	12008	467 University Ave. W. Windsor	307	.001	.002	.004	.006	.010	.024	.043	.005	.003	NIL
	12010	Tecumseh Sewage Stn.	307	.001	.002.	.004	.000	.010	.024	.040	.003	.003	INIC.
		Manning Rd.											
	10010	Windsor	58	.001	.001	.003	.005	.008	.012	.016	.004	.002	NIL
	12013	Filtration Plant 3665 Wyandotte St. E.											
		Windsor	53	.001	.004	.005	.010	.019	.026	.029	.008	.005	NIL
	12014	University Met. Stn.											
		College/Calif. St. Windsor	49	.001	.001	.004	.008	.014	.025	.026	.006	.002	NIL
	12015	Sewage Plant	49	.001	.001	.004	.000	.014	.025	.020	.000	.002	INIL
		Hwy 18/Prospect											
	10000	Windsor	54	.001	.005	.008	.011	.016	.036	.037	.009	.006	NIL
	13003	Post Office 10 Center St.											
		Chatham	43	.001	.002	.003	.005	.008	.051	.065	.006	.002	NIL
	13022	RR #3											
		NNW of House	26	001	002	007	011	010	.037	042	010	004	NIL
	13023	Blenheim RR #1	26	.001	.003	.007	.011	.019	.037	.042	.010	.004	NIL
		Behind the Barn											
	72227	Blenheim	54	.001	.003	.005	.007	.010	.017	.019	.005	.004	NIL
	13024	Jackson Farm Blenheim	52	.001	.002	.003	.005	.007	.022	.032	.004	.002	NIL
	13025	RR #2	32	.001	.002	.003	.003	.007	.022	.032	.004	.002	IIIL
		Behind the Barn											
	14001	Merlin	47	.001	.001	.003	.004	.006	.009	.009	.003	.002	NIL
3	14001	General Hospital 220 Minton St.											
		Sarnia	54	.001	.001	.002	.004	.006	.011	.014	.003	.001	NIL
	14016	Opposite Lambton GS											
		Hwy 40 Courtright	124	.001	.001	.002	.004	.009	.012	.014	.003	.002	NIL
	14030	RR #1	M <del>ille</del> nta	.001	.001	.002	.004	.000	.012	.0.14	.000	.002	(Contract)
		West of the House						155015	57570	200		0.00	100000
	14031	Corunna RR #1	58	.001	.001	.003	.005	.009	.030	.053	.005	.002	NIL
	14031	West side of Barn											
		Mooretown	58	.001	.001	.003	.005	.009	.027	.035	.005	.002	NIL
	14064	Centennial Park											
		Front St./CN Tracks Sarnia	57	.001	.002	.003	.004	.005	.012	.013	.003	.002	NIL
	15001	Western Fair Grounds	٠.	.001	.002	.000	.00	.000	.0.1	.0.0	.000	.002	
		King/Rectory		221									*
		London	52	.001	.001	.002	.003	.006	.008	.009	.002	.001	NIL
WEST-	28024	95 Inkerman St.											
CENTRAL		Guelph	54	.001	.002	.003	.004	.006	.020	.044	.004	.002	NIL
	29001	Hughson/Hunter Hamilton	58	.001	.002	.006	.010	.029	.083	.140	.011	.004	NIL
	29008	North Park	30	.001	.002	.000	.010	.029	.003	.140	.011	.004	INIL
		Hamilton	324	.002	.005	.010	.017	.031	.061	.097	.014	٠.008	NIL
	29011	Burlington/Leeds	00	000	0.15	000	000	05.6	075	400	005	004	N01
	29012	Hamilton Burlington/Wellington	69	.006	.015	.022	.029	.054	.375	.420	.035	.021	NIL
	-5012	Hamilton	68	.003	.004	.007	.011	.021	.029	.030	.010	.006	NIL
	29017	Chatham/Frid											3.00
	29025	Hamilton Barton/Wentworth	57	.001	.003	.008	.014	.030	.071	.086	.013	.005	NIL
	23020	Hamilton	317	.001	.005	.010	.015	.042	.130	.691	.020	.008	NIL
	29067	450 Hughson St. N.											
	20005	Hamilton	58	.001	.004	.007	.015	.026	.036	.040	.011	.006	NIL
	29085	Upper Wellington/ Inverness											
		Hamilton	54	.001	.002	.005	.009	.019	.040	.057	.008	.004	NIL

Table 25 - Continued . . .

	STATION		NO. OF			PERCE	NTILES	:		MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
CENTRAL	31058	Mosley/Leslie St.											
		Toronto	344	.002	.006	.010	.015	.025	.064	.098	.013	.008	NIL
	31064	17 Berkeshire Ave.											
		Toronto	321	.001	.005	.009	.015	.039	.093	.200	.016	.006	NIL
	31065	633 Eastern Ave.											
		Toronto	276	.006	.020	.030	.070	.178	.404	.597	.066	.028	NIL
	31099	Pal Elec.											
		Pape Ave.											
		Toronto	140	.001	.008	.019	.030	.074	.141	.240	.029	.011	NIL
	31104	26 Breadalbane											
		Toronto	229	.001	.003	.006	.008	.015	.024	.043	.007	.003	NIL
	33003	Lawrence/Kennedy											
		Toronto	92	001	.001	.002	.004	.007	.019	.024	.003	.001	NIL
	34002	Science Centre											
		770 Don Mills Rd.											
		North York	110	.001	.001	.003	.004	.007	.013	.021	.003	.002	NIL
	35003	Elmcrest Rd.											
		Etobicoke	37	.001	.001	.002	.003	.005	.009	.009	.002	.001	NIL
	35033	Evans/Arnold Ave.											
	V 240 27 20 02000	Etobicoke	100	.001	.002	.004	.007	.010	.027	.131	.006	.002	NIL
	35037	3050 Lakeshore Blvd. W.											
	25455	Etobicoke	289	.001	.006	.010	.014	.028	.090	.200	.014	.007	NIL
	45001	Pickering Fire Hall											
		Pickering		.001	.001	.003	.004	.006	.011	.017	.003	.002	NIL
	46025	Mississauga Public Library			A-12-07 (2-14 (1 (1 ))	55000499	39032000						
		Mississauga	54	.001	.004	.007	.010	.014	.025	.028	.008	.005	NIL
	59006	City Hall											
		500 George St.	22.2		-		2002	222					
		Peterborough	104	.001	.003	.005	.016	.130	.170	.300	.036	.007	NIL
NORTH-	63005	Hospital											
WEST		Archibald/Arthur St.											
CONTRACTOR		Thunder Bay	59	.001	.002	.004	.006	.010	.016	.019	.005	.003	NIL
	63022	Hospital								.0.0	.000	.000	
		35 Algoma St.											
		Thunder Bay	58	.001	.001	.001	.003	.007	.014	.016	.003	.001	NIL

Table 26 Summary of Data: Zinc in Suspended Particulate Matter (all values in micrograms per cubic meter)

No Ontario Criterion

	STATION		NO. OF			PERCE	NTILES	6		MAX.	ARITH.	GEOM.
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN
SOUTH-	12005	7730 Riverside Dr. E.										
WEST		Windsor	36	0.1	0.1	0.1	0.1	0.2	0.7	0.7	0.1	0.0
	12008	467 University Ave. W.										
		Windsor	170	0.1	0.1	0.1	0.3	0.4	0.7	0.8	0.2	0.1
	12015	Sewage Plant										
		Hwy 18/Prospect										
		Windsor	26	0.1	0.1	0.1	0.2	0.4	0.5	0.5	0.2	0.1
	13023	RR #1										
		Behind the Barn										
		Blenheim	32	0.1	0.1	0.3	0.3	0.4	0.5	0.5	0.2	0.1
	14016	Opposite Lambton G.S.										
		Hwy 40										
		Courtright	87	0.1	0.1	0.1	0.2	0.4	0.5	0.6	0.2	0.1
	14064	Centennial Park										
		Front St./CN Tracks										
		Sarnia	34	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.2	0.1
	15001	Western Fair Grounds										
		King/Rectory										
		London	30	0.1	0.2	0.2	0.2	0.3	0.6	0.7	0.2	0.1
WEST-	28024	95 Inkerman St.										
CENTRAL		Guelph	28	0.1	0.1	0.1	0.2	0.4	1.0	1.2	0.2	0.2
	29011	Burlington/Leeds				-						V.E.
		Hamilton	46	0.6	0.7	0.9	1.4	1.9	2.9	3.3	1.1	1.0
				0.0		0.0				0.0		

Table 26 - Continued . . .

	CTATION		NO OF			DEBOE	NITH E			MAY	ADITU	CEOM
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
WEST-	29012	Burlington/Wellington										
CENTRAL		Hamilton	43	0.1	0.1	0.3	0.4	0.6	0.8	0.8	0.3	0.2
	29017	Chatham/Frid										
		Hamilton	31	0.1	0.1	0.1	0.2	0.3	0.6	0.7	0.1	0.1
	29025	Barton/Wentworth										
		Hamilton	204	0.1	0.2	0.5	0.7	1.3	4.0	9.0	0.7	0.3
	29085	Upper Wellington/ Inverness										
		Hamilton	34	0.1	0.1	0.1	0.2	0.3	0.8	1.0	0.2	0.1
CENTRAL	31018	35 Bathurst St.										
		Toronto	205	0.1	0.1	0.2	0.4	1.0	1.7	1.8	0.4	0.2
	31058	Mosley/Leslie Sts.										
		Toronto	216	0.1	0.1	0.2	0.6	1.3	3.4	4.2	0.6	0.2
	31064	17 Berkeshire Ave.										
		Toronto	235	0.1	0.1	0.4	0.8	1.2	2.0	3.8	0.5	0.2
	31065	633 Eastern Ave.										
		Toronto	205	0.1	0.3	0.4	0.6	1.3	3.0	3.2	0.6	0.3
	31104	26 Breadalbane										
		Toronto	224	0.1	0.1	0.1	0.3	0.8	1.2	1.6	0.3	0.1
	31120	Junction Triangle										
		Perth Ave.									100000	0.4613467
		Toronto	31	0.1	0.3	0.3	0.4	0.6	0.8	0.8	0.3	0.3
	34002	Science Centre										
		770 Don Mills Rd.	10-25	2.5	20.0	120 0	2 20	200.00	120.0		2.2	12.3
		North York	42	0.1	0.1	0.1	0.3	0.4	0.4	0.4	0.2	0.1
	35003	Elmcrest Rd.										
		Etobicoke	27	0.2	0.3	0.3	0.4	0.4	0.6	0.7	0.3	0.3
	35033	Evans/Arnold Ave.	19619					0.5	0.5	0.6	0.0	0.4
	25227	Etobicoke	54	0.1	0.1	0.2	0.3	0.5	0.5	0.6	0.2	0.1
	35037	3050 Lakeshore Blvd. W.	101	0.1	0.0	0.5	0.0	1.0	2.5	F 0	0.7	0.4
	45004	Etobicoke	164	0.1	0.2	0.5	0.8	1.8	3.5	5.0	0.7	0.4
	45001	Pickering Fire Hall	142	0.1	0.1	0.1	0.2	0.3	0.8	0.8	0.1	0.1
	46025	Pickering Mississauga Public Library		0.1	0.1	0.1	0.2	0.3	0.0	0.0	0.1	0.1
	46025	Mississauga Fublic Library	52	0.1	0.2	0.2	0.3	0.6	0.7	0.8	0.3	0.2
		Mississauga	32	0.1	0.2	0.2	0.5	0.0	0.7	0.0	0.0	0.2
NORTH-	63005	Hospital										
WEST	00000	Archibald/Arthur St.										
		Thunder Bay	59	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.3	0.2
	63022	Hospital										
		35 Algoma St. N.										
		Thunder Bay	58	0.1	0.2	0.2	0.4	0.5	0.5	0.6	0.3	0.2
NORTH-	71042	Bonney St. Pumphouse										
EAST		Sault Ste. Marie	28	0.4	0.5	0.6	0.8	1.0	1.2	1.3	0.7	0.6
	71049	Land Reg. Office										
		Queen St.										
		Sault Ste. Marie	27	0.1	0.4	0.4	0.5	0.6	1.1	1.2	0.4	0.3

Table 27 Summary of Data: Manganese in Total Suspended Particulate (all values in micrograms per cubic meter)

Ontario Criterion - 24-Hour average: 50.0 ug/m<sup>3</sup>

	STATION		NO. OF			PERCE	NTILES	3		MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
SOUTH-	12002	City Hall											
WEST		44 Windsor Ave.											
		Windsor	55	.019	.029	.039	.064	.120	.198	.200	.056	.036	NIL
	12005	7730 Riverside Dr. W.											
		Windsor	58	.009	.020	.027	.043	.071	.187	.343	.040	.026	NIL
	12008	467 University Ave. W.											
		Windsor	307	.013	.028	.045	.066	.116	.210	.250	.055	.037	NIL
	12010	Tecumseh Sewage Stn.											
		Manning Rd.			*								
		Windsor	58	.001	.012	.019	.022	.032	.060	.063	.019	.009	NIL

Table 27 - Continued . . .

	STATION		NO. OF			PERCE	NTILES			MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERIA
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
SOUTH-	12013	Filtration Plant			-								
WEST		3665 Wyandotte St. E.											
		Windsor	53	.011	.033	.047	.061	.128	.190	.200	.057	.034	NIL
	12014	University Met. Stn. College/Calif. St.											
		Windsor	49	.010	.040	.058	.079	118	.194	.219	.065	.037	NIL
	12015	Sewage Plant	49	.010	.040	.000	.073	. 1 10	.134	.213	.003	.037	IVIL
		Hwy 18/Prospect											
		Windsor	55	.018	.039	.070	.095	.157	.203	.221	.078	.059	NIL
	13003	Post Office											
		10 Center St. Chatham	43	.007	.015	.023	.032	055	.101	.104	.030	.019	NIL
	13022	RR #3	43	.007	.013	.023	.032	.055	.101	.104	.030	.019	NIL
		NNW of House											
		Blenheim	23	.023	.032	.044	.060	.131	.206	.208	.063	.047	NIL
	13023	RR #1											
		Behind the Barn		000	040		005			1.72			
	13024	Blenheim Jackson Farm	47	.006	.012	.020	.035	.059	.117	.117	.029	.018	NIL
	13024	Blenheim	46	.004	.009	.015	.031	.054	.083	.095	.024	.014	NIL
	13025	RR #2	condition.						.500		and the state of t		100-100-1
		Behind the Barn											
		Merlin	41	.002	.009	.017	.023	.040	.106	.165	.021	.010	NIL
	14001	General Hospital											
		220 Minton St. Sarnia	54	.005	012	.020	.030	.056	.098	.098	.026	.016	NIL
	14016	Opposite Lambton GS	34	.003	.012	.020	.030	.030	.090	.090	.020	.016	INIL
	1000000000	Hwy 40											
		Courtright	124	.004	.010	.017	.025	.042	.062	.115	.021	.012	NIL
	14030	RR #1											
		West of the House	<b>C</b> 4	000	000	010	005	000	000	000	004	0.40	NO.
	14031	Corunna RR #1	51	.002	.006	.018	.025	.038	.093	.099	.021	.010	NIL
	14001	West side of Barn											
		Mooretown	52	.001	.004	.014	.024	.042	.100	.140	.020	.008	NIL
	14064	Centennial Park											
		Front St./CN Tracks	-	2022		2020	San account	727 1771	1,202,020	2000	028400	4241525	SPVR
	15001	Sarnia Western Fair Grounds	57	.006	.013	.024	.031	.044	.065	.066	.024	.019	NIL
	13001	King/Rectory											
		London	53	.005	.020	.028	.034	.077	.111	.115	.033	.019	NIL
WEST-	28024	95 Inkerman St.											
CENTRAL	29001	Guelph	54	.009	.022	.038	.058	.272	.503	.563	.085	.036	NIL
	29001	Hughson/Hunter Hamilton	56	.013	032	.076	.122	373	.752	.857	.143	.065	NIL
	29008	North Park		.0.0	.002	.070		.010	., 02	.007	.140	.000	ME
		Hamilton	323	.038	.092	.174	.335	.721	1.151	1.497	.285	.169	NIL
	29011	Burlington/Leeds											
	20012	Hamilton	55	.086	.183	.276	.362	.586	.879	.913	.305	.239	NIL
	29012	Burlington/Wellington Hamilton	68	.034	.063	111	.176	2/1	.566	.671	.156	.107	NIL
	29017	Chatham/Frid	00	.034	.003	s.f. 1: 1	.170	.341	.300	.071	.130	.107	NIL
	20017	Hamilton	55	.024	.041	.077	.150	.405	.984	.985	.157	.084	NIL
	29067	450 Hughson St. N.											
	rana dina	Hamilton	58	.013	.043	.073	.169	.504	.797	.850	.175	.075	NIL
	29085	Upper Wellington/											
		Inverness Hamilton	52	.019	.033	055	.112	301	.538	.585	.116	063	NIL
		, animon	32	.019	.000	.000	.112	.001	.000	.565	.110	.063	INIL
CENTRAL	31058	Mosley/Leslie St.											
		Toronto	344	.013	.031	.044	.062	.091	.190	.248	.051	.034	NIL
	31104	26 Breadalbane	225				1.12	22.2					
	31130	Toronto	229	.012	.023	.033	.049	.080	.137	.159	.040	.027	NIL
	31120	Junction Triangle Perth Ave.											
		Toronto	80	.007	.030	.038	.056	.094	.162	.170	.048	.026	NIL
	33003	Lawrence/Kennedy								A. I.	.0 10	.020	22.5
		Toronto	92	.009	.017	.020	.028	.049	.069	.110	.025	.019	NIL
	34002	Science Centre											
		770 Don Mills Rd.	110	004	011	040	000	044	004	000	010	010	Nu
		North York	112	.004	.011	.016	.022	.041	.061	.062	.019	.012	NIL

Table 27 - Continued . . .

								60			ADITU	orou.	TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	70	90	99	MAX.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
CENTRAL	35003	Elmcrest Rd.											
		Etobicoke	37	.006	.017	.030	.039	.059	.092	.104	.031	.020	NIL
	35033	Evans/Arnold Ave.											
		Etobicoke	119	.022	.035	.044	.056	.078	.118	.143	.048	.042	NIL
	35037	3050 Lakeshore Blvd. W.											
		Etobicoke	99	.010	.019	.029	.039	.062	.096	.122	.032	.022	NIL
	45001	Pickering Fire Hall											
		Pickering	290	.006	.010	.020	.028	.050	.080	.101	.023	.016	NIL
	46025	Mississauga Public Library	V										
		Mississauga	54	.016	.032	.047	.079	.130	.218	.275	.064	.041	NIL
	59006	City Hall											
		500 George St.											
		Peterborough	104	.004	.010	.012	.023	.040	.062	.064	.018	.011	NIL
NORTH-	63022	Hospital											
WEST		35 Algoma St.											
		Thunder Bay	58	.001	.010	.026	.040	.086	.163	.174	.035	.015	NIL
NORTH-	71022	Sault College											
EAST		Queen St.											
		Sault Ste. Marie	31	.088	.170	.235	.440	.673	.928	.981	.326	.238	NIL
	71042	Bonney St. Pumphouse											
	an was Alleria	Sault Ste. Marie	26	.108	.255	.478	.725	.938	1.319	.1.378	.518	.382	NIL
	71049	Land Reg. Office											
		Queen St.											
		Sault Ste. Marie	47	.029	.041	.056	.096	.195	.300	.323	.087	.063	NIL

Table 28 Summary of Data: Vanadium in Total Suspended Particulate (all values in micrograms per cubic meter)

Ontario Criterion – 24-Hour average: 2.0 ug/m<sup>3</sup>

													TIMES ABOVE
REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRITERION 24-HR.
SOUTH- WEST	12005	7730 Riverside Dr. W. Windsor	54	.002	.003	.004	.005	.013	.028	.032	.006	.004	NIL
WEST	12008	467 University Ave. W. Windsor	307	.002	.003	.005	.007	.012	.020	.034	.006	.004	NIL
	12010	Tecumseh Sewage Stn. Manning Rd.	507	.002	.000	.000	.001	.012	.ozo	.00 1	.000	.001	13170
	12013	Windsor Filtration Plant	58	.001	.001	.001	.002	.003	.011	.018	.002	.001	NIL
	12010	3665 Wyandotte St. E. Windsor	53	.002	.004	.004	.007	.009	.020	.023	.006	.005	NIL
	12014	University Met. Stn. College/Calif. St.											
	12015	Windsor Sewage Plant	49	.002	.004	.005	.008	.015	.021	.021	.007	.005	NIL
		Hwy 18/Prospect Windsor	55	.003	.004	.005	.007	.012	.017	.017	.007	.006	NIL
	13003	Post Office 10 Center St.											
	14001	Chatham General Hospital	43	.001	.003	.004	.005	.008	.013	.014	.004	.003	NIL
		220 Mitton St. Sarnia	54	.002	.004	.005	.010	.025	.102	.141	.013	.006	NIL
	14016	Opposite Lambton GS Hwy 40											
	14030	Courtright RR #1	124	.001	.003	.004	.007	.015	.068	.080	.008	.004	NIL
		West of the House Corunna	51	.001	.002	.004	.006	.010	.022	.026	.005	.004	NIL
	14031	RR #1 West side of Barn											
		Mooretown	52	.001	.003	.004	.006	.010	.018	.020	.005	.004	NIL

Table 28 - Continued . . .

	STATION		NO. OF	(1)-70		PERCE	NTILES			MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HR.
SOUTH-	14064	Centennial Park											
WEST		Front St./CN Tracks											
		Sarnia	57	.003	.005	.010	.025	.056	.111	.121	.021	.011	NIL
	15001	Western Fair Grounds											
		King/Rectory											
		London	53	.001	.002	.003	.004	.007	.008	.009	.003	.002	NIL
WEST	00004	05.1.1											
WEST-	28024	95 Inkerman St.		001	001	000	004	007	000	000	000	000	<b>A</b> 111
CENTRAL	29001	Guelph	54	.001	.001	.002	.004	.007	.008	.008	.003	.002	NIL
	29001	Hughson/Hunter Hamilton	E0	.001	000	004	012	020	045	052	010	004	NIII
	29008	North Park	58	.001	.002	.004	.012	.029	.045	.052	.010	.004	NIL
	29000	Hamilton	325	.002	.005	.008	.012	.023	.040	.048	.011	.007	NIL
	29011	Burlington/Leeds	323	.002	.003	,000	,012	.023	.040	.040	.011	.007	INIL
	23011	Hamilton	69	.003	.006	.010	.014	.029	.052	.052	.013	.009	NIL
	29012	Burlington/Wellington	00	.000	.000	.010	.014	.023	.002	.002	.010	.003	MIL
	200.2	Hamilton	68	.001	.004	.006	.009	.017	.029	.029	.008	.005	NIL
	29017	Chatham/Frid								.020			
		Hamilton	57	.003	.005	.008	.015	.040	.067	.081	.014	.009	NIL
	29025	Barton/Wentworth										MG: Dotto	
		Hamilton	317	.003	.006	.008	.012	.024	.053	.076	.012	.008	NIL
	29067	450 Hughson St. N.											
		Hamilton	58	.002	.004	.007	.010	.018	.025	.026	.008	.006	NIL
	29085	Upper Wellington/											
		Inverness											
		Hamilton	55	.001	.003	.005	.008	.021	.032	.034	.008	.005	NIL
22.22.0													
CENTRAL	31058	Mosley/Leslie St.							a contractor and the		Company of the Control of		
		Toronto	344	.003	.006	.008	.012	.020	.038	.063	.010	.007	NIL
	31104	26 Breadalbane	222	000	000	005	007	040	004	007	226		****
	33003	Toronto	229	.002	.003	.005	.007	.013	.024	.027	.006	.004	NIL
	33003	Lawrence/Kennedy Toronto	92	.001	.002	.003	004	007	010	017	000	000	A111
	34002	Science Centre	92	.001	.002	.003	.004	.007	.010	.017	.003	.002	NIL
	34002	770 Don Mills Rd.											
		North York	112	.001	.001	.003	.004	.006	.009	.020	.003	.002	NIL
	35003	Elmcrest Rd.		.001	.001	.000	.004	.000	.003	.020	.003	.002	MIL
	00000	Etobicoke	37	.001	.001	.002	.004	.009	.022	.030	.004	.002	NIL
	35033	Evans/Arnold Ave.	٠.	.00.	.00	.002	.00	.000	.022	.000	.001	.002	1412
		Etobicoke	119	.001	.004	.006	.008	.013	.020	.094	.007	.004	NIL
	35037	3050 Lakeshore Blvd. W.								.00	.001	.00	
		Etobicoke	99	.002	.003	.003	.004	.009	.014	.014	.004	.003	NIL
	45001	Pickering Fire Hall											
		Pickering	290	.001	.001	.002	.004	.007	.012	.083	.003	.002	NIL
	46025	Mississauga Public Library	/										
		Mississauga	54	.001	.003	.005	.007	.012	.020	.020	.006	.004	NIL
	59006	City Hall											
		500 George St.											
		Peterborough	104	.001	.001	.001	.004	.010	.015	.016	.003	.001	NIL
NODT	00000	W. a. L. I											
NORTH-	63022	Hosiptal											
WEST		35 Algoma St.		001			0.00						****
		Thunder Bay	58	.001	.002	.003	.006	.015	.028	.033	.006	.003	NIL

Table 29/1981	Ontario's Air Pollution Index			
Date Started:	TORONTO HAMILTON SUDBURY WINDSOR HAPPY VALLEY WELLAND NIAGARA FALLS CONISTON NEW SUDBURY SARNIA	MARCH 23, 1970 JUNE 15, 1970 JANUARY 16, 1971 MARCH 19, 1971 MAY 13, 1971 JANUARY 1, 1974 NOVEMBER 1, 1974 FEBRUARY 18, 1975 MARCH 1, 1976 DECEMBER 1, 1977	(Closed Jan. 1975) (Closed Oct. 1978)	
	SARNIA ST. CATHARINES	DECEMBER 1, 1977 SEPTEMBER 14, 1979		

	CITY	NUMBER OF	OCCASIONS	MAXIMUM	DATE OF MAXIMUM
EAR		€32	≤50	INDEX	
1970		17	2	56	OCT. 8
	HAMILTON	2	1	56	OCT. 8
1971	TORONTO	19	1	52	APR. 13
	HAMILTON	23	NIL	48	OCT. 21
	SUDBURY	26	3	87	DEC. 11
	WINDSOR	2	NIL	33	NOV. 10
	HAPPY VALLEY	20	7	64	NOV. 21
1972	TORONTO	2	NIL	45	FEB. 13
1312	HAMILTON	6	NIL	41	FEB. 13
	SUDBURY	7	1	79	JUNE 12
		9	i	53	JAN. 29
	WINDSOR HAPPY VALLEY	20	11	139	MAR. 23
1070	E CLEMENT CONTROL OF THE SECOND CONTROL OF T		Kni	42	OCT 24
1973	TORONTO	3	NIL	43	OCT. 24
	HAMILTON	2	NIL	34	FEB. 14
	SUDBURY	NIL	NIL	26	MAR. 14
	WINDSOR	7	NIL	44	FEB. 19
	HAPPY VALLEY	19	10	94	AUG. 21
1974	TORONTO	3	1	50	OCT. 29
	HAMILTON	11	NIL	44	OCT. 29
	SUDBURY	1	NIL	32	JULY 13
	WINDSOR	2	NIL	41	JAN. 7
	HAPPY VALLEY	24	13	116	APR. 23
	WELLAND	46	15	77	OCT. 6
	NIAGARA FALLS	NIL	NIL	20	NOV. 9
1975	TORONTO	2	1	62	NOV. 20
	HAMILTON	10	NIL	38	OCT. 24
	SUDBURY	NIL	NIL	30	FEB. 1
	WINDSOR	NIL	NIL	28	FEB. 11
	WELLAND	NIL	NIL	23	JAN. 24
	NIAGARA FALLS	NIL	NIL	21	NOV. 24
	CONISTON	NIL	NIL	30	MAY 13
1076	TORONTO	1	NIL	33	OCT. 3
1976	HAMILTON	8	NIL	41	DEC. 16
		NIL	NIL	28	JUNE 6
	SUDBURY				DEC. 16
	WINDSOR	1	NIL	34	
	WELLAND	NIL	NIL	24	DEC. 16
	NIAGARA FALLS	NIL	NIL	25	FEB. 21
	CONISTON	NIL	NIL	29	SEPT. 16
	NEW SUDBURY	NIL	NIL	29	APR. 2, 3 &
					JUNE 20
1977	TORONTO	4	NIL	36	JAN. 15
	HAMILTON	10	NIL .	44	MAR. 12
	SUDBURY	NIL	NIL	24	JUNE 11
	WINDSOR (12008)	1	NIL	33	APR. 19
	WELLAND	NIL	NIL	22	JAN. 24, 25
	NIAGARA FALLS	NIL	NIL	28	FEB. 21
	CONISTON	NIL	NIL	25	APR. 25
	WINDSOR (12016)	NIL	NIL	29	APR. 19
	NEW SUDBURY	1	NIL	39	JUNE 11
	SARNIA	NIL	NIL	15	DEC. 13

Table 29 - Continued

	CITY	NUMBER OF	OCCASIONS	MAXIMUM	DATE OF	
YEAR		€32	€50	INDEX	MAXIMUM	
1978	TORONTO	2	NIL	45	NOV. 5	
	HAMILTON	7	NIL	43	NOV. 4	
	SUDBURY	NIL	NIL	31	JAN. 22	
	WINDSOR (12008)	1	NIL	33	APR. 19	
	WELLAND	NIL	NIL	24	MAR. 15	
	NIAGARA FALLS	NIL	NIL	23	NOV. 4, MAR. 1	
	CONISTON	3	NIL	34	FEB. 7	
	WINDSOR (12016)	NIL	NIL	28	FEB. 18	
	NEW SUDBURY	1	NIL	42	FEB. 2	
	SARNIA	3	NIL	41	JAN. 24	
1979	TORONTO	2	NIL	35	OCT. 18	
	HAMILTON	23	1	55	DEC. 22	
	SUDBURY	NIL	NIL	18	JULY 7	
	WINDSOR (12008)	NIL	NIL	31	FEB. 20	
	NIAGARA FALLS	NIL	NIL	27	FEB. 21	
	CONISTON	NIL	NIL	31	FEB. 14	
	WINDSOR (12016)	NIL	NIL	27	FEB. 21	
	NEW SUDBURY	NIL	NIL	28	FEB. 14	
	SARNIA	2	NIL	43	FEB. 20	
	ST. CATHARINES	NIL	NIL	29	NOV. 6	
1980	TORONTO	NIL	NIL	31	DEC. 8	
	HAMILTON	5	NIL	40	OCT. 16	
	SUDBURY	NIL	NIL	23	OCT. 16	
	WINDSOR (12008)	NIL	NIL	25	FEB. 8, 9	
	WINDSOR (12016)	NIL	NIL	25	DEC. 29	
	NIAGARA FALLS	NIL	NIL	18	MAY 24	
	CONISTON	NIL	NIL	30	FEB. 10, MAR. 9	
	NEW SUDBURY	NIL	NIL	24	JULY 3, OCT. 10	
	SARNIA	1	NIL	39	MAR. 20	
	ST. CATHARINES	NIL	NIL	28	FEB. 20	
1981	TORONTO	3	NIL	43	NOV. 14	
	HAMILTON	8	NIL	38	NOV. 15	
	SUDBURY	NIL	NIL	21	JAN. 31	
	WINDSOR (12008)	1	NIL	42	NOV. 17	
	WINDSOR (12016)	NIL	NIL	31	NOV. 17	
	NIAGARA FALLS	NIL	NIL	25	JAN. 14	
	CONISTON	NIL	NIL	20	NOV. 25	
	NEW SUDBURY	NIL	NIL	22	JAN. 28, 29	
	SARNIA	1	NIL	34	FEB. 16	
	ST. CATHARINES	NIL	NIL	27	JAN. 14, 15	

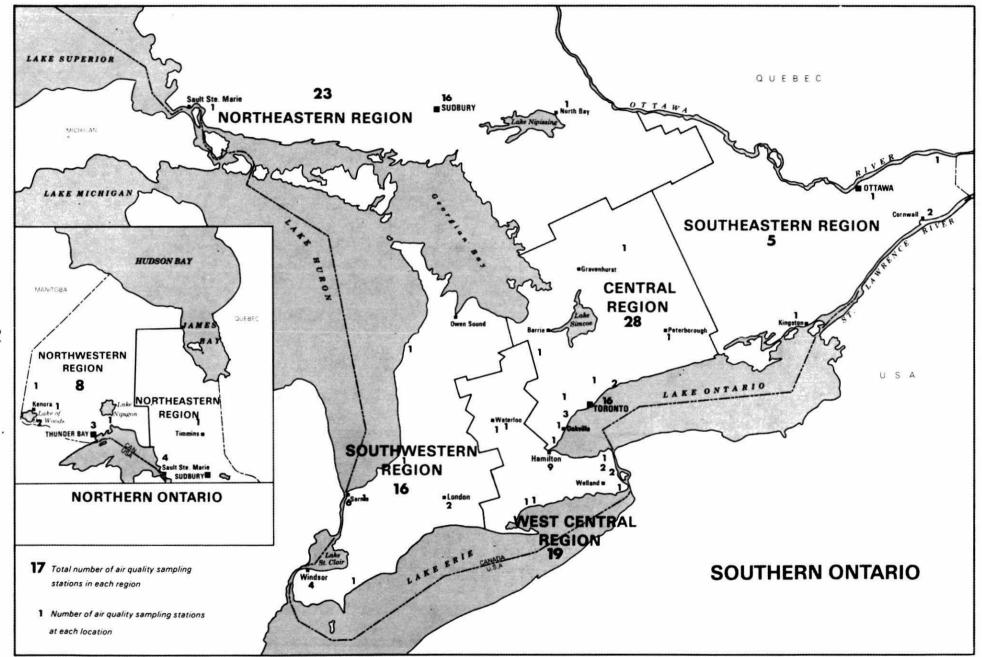


Figure 1. Locations of continuous sampling stations in Ontario.

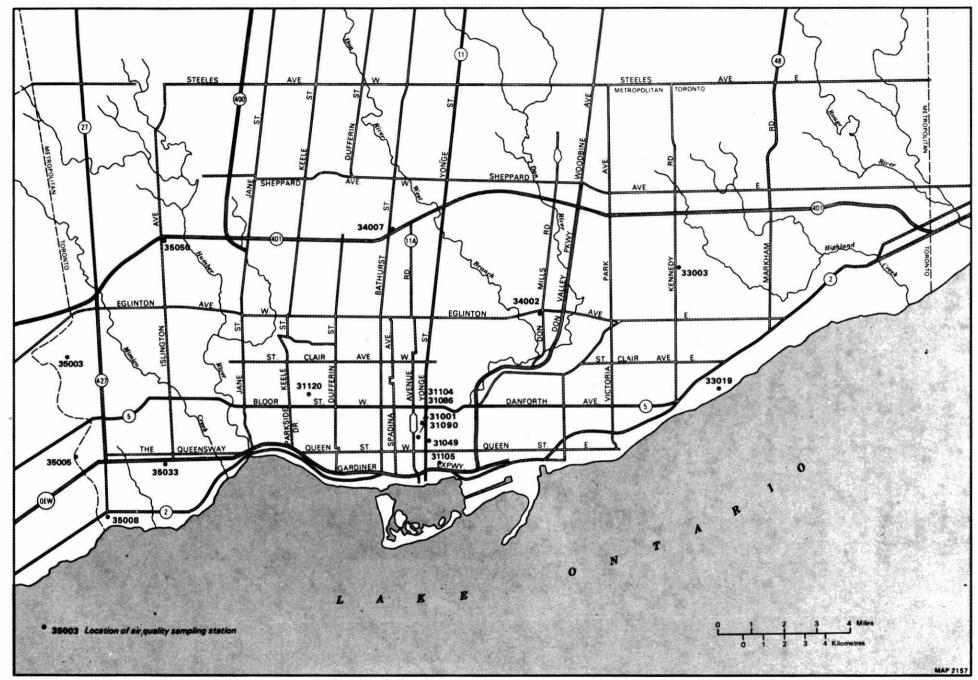


Figure 2. Locations of continuous sampling stations in Metropolitan Toronto.

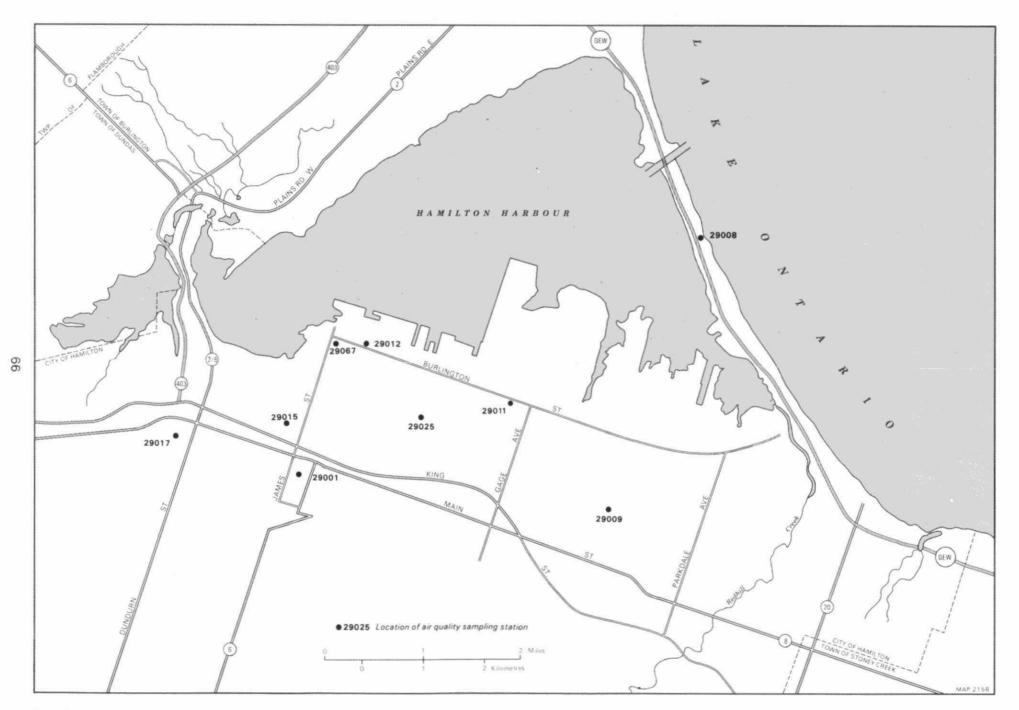


Figure 3. Locations of continuous sampling stations in Hamilton.

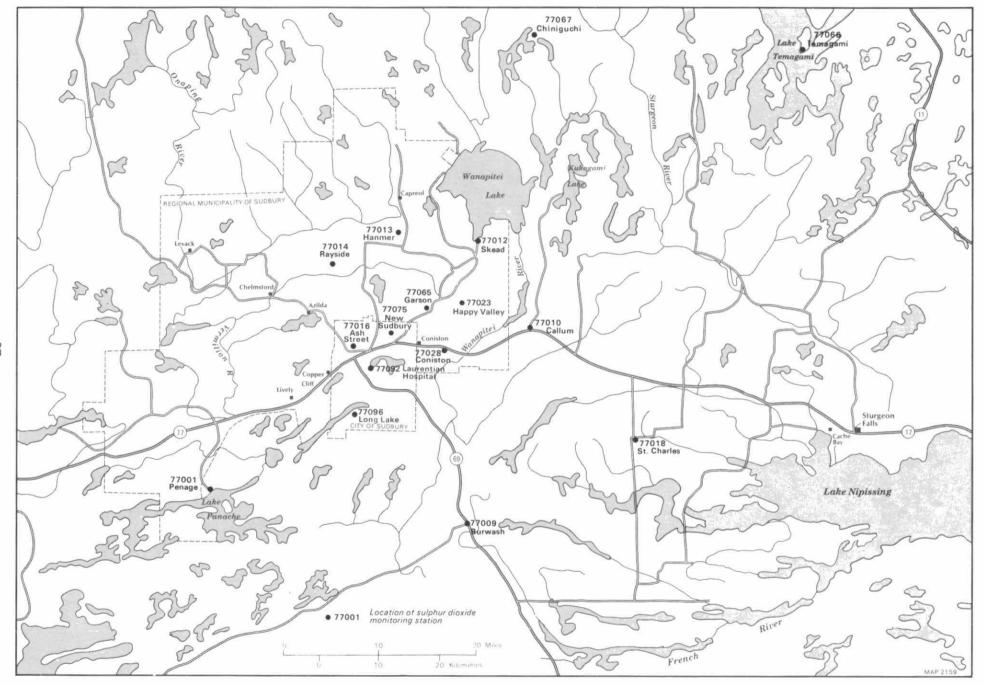


Figure 4. Locations of sulphur dioxide monitoring stations in the Sudbury area.

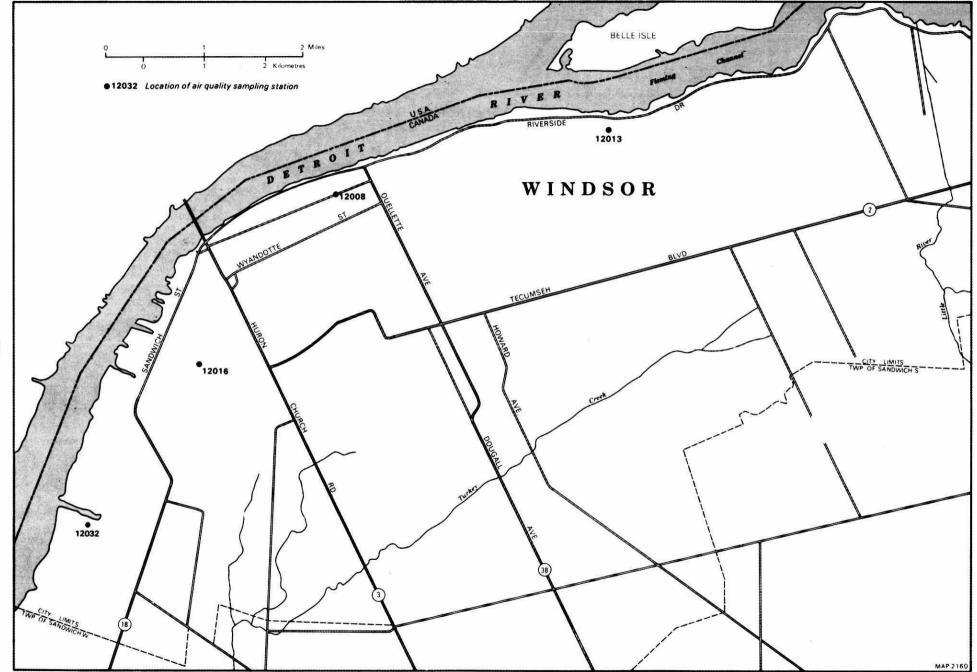


Figure 5. Locations of continuous sampling stations in Windsor.

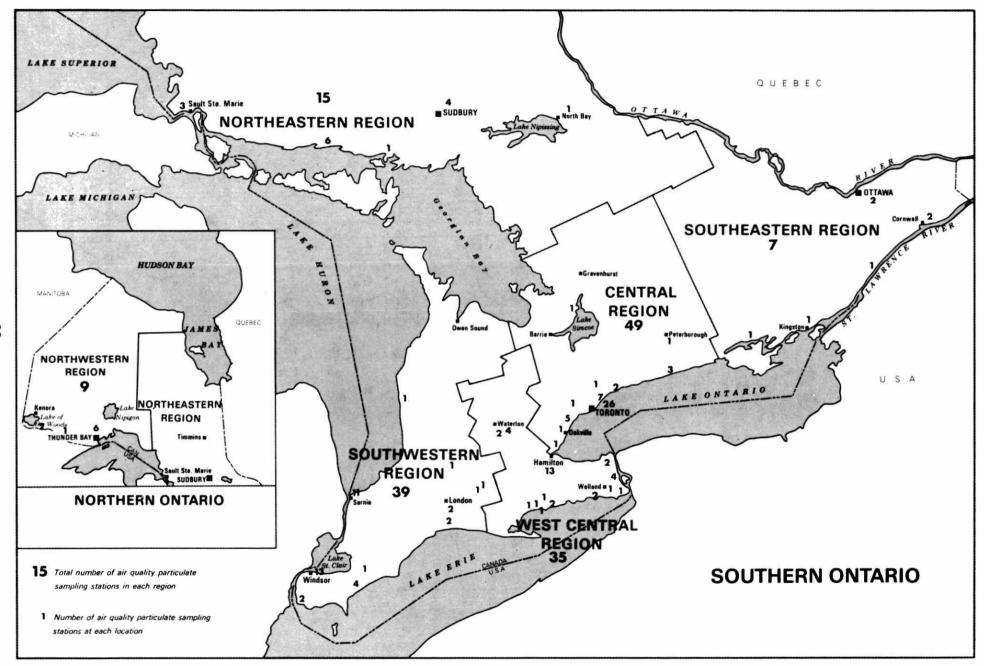


Figure 6. Locations of particulate sampling stations in Ontario.

Figure 7. Locations of particulate sampling stations in Metropolitan Toronto.

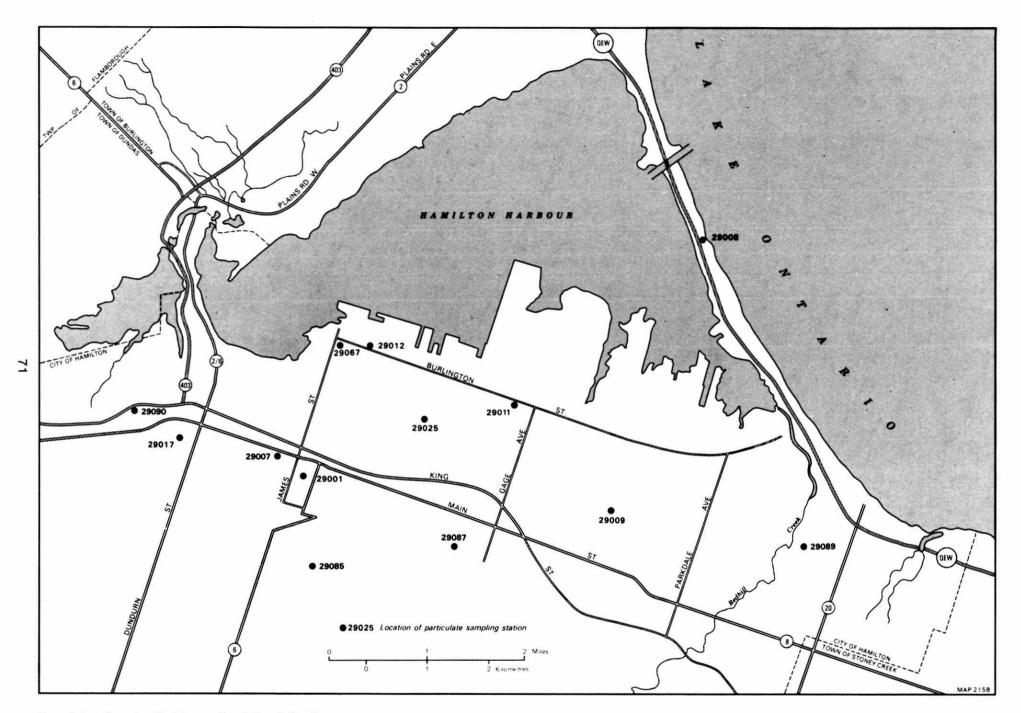


Figure 8. Locations of particulate sampling stations in Hamilton.

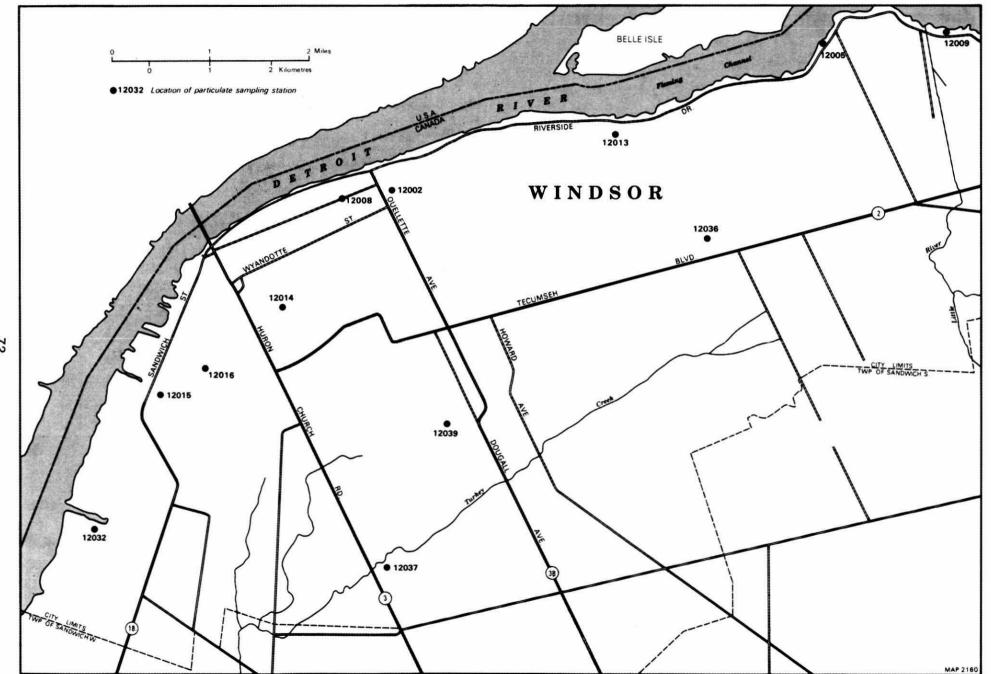


Figure 9. Locations of particulate sampling stations in Windsor.

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